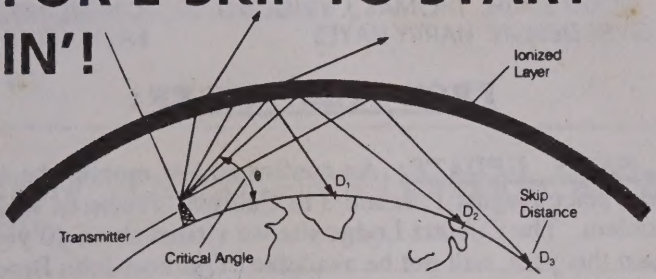
Vhf-Uhf DIGEST

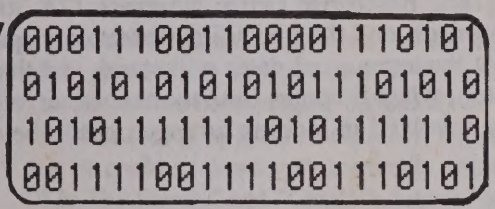
The Official Publication of the Worldwide TV-FM DX Association

MAY 1997

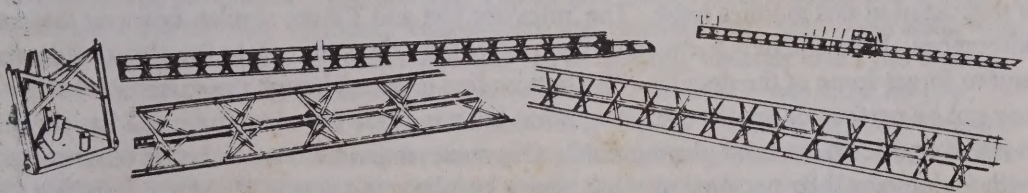
TIME FOR E-SKIP TO START HOPPIN'!



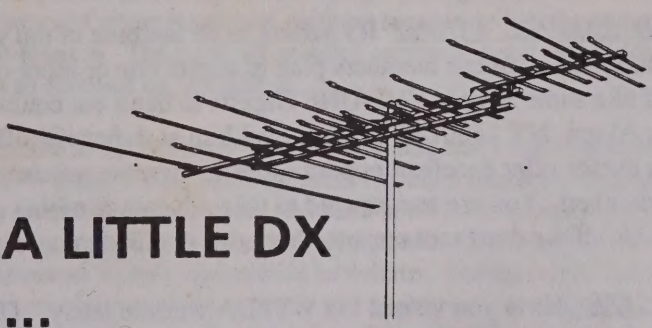
SPECIAL SECTION: DIGITAL TV "Q. & A."



GUIDELINES FOR COUNTING DX...



2000' TALL TOWER COLLAPSES!



AND EVEN A LITTLE DX REPORTED....

WORLDWIDE TV-FM DX ASSOCIATION

SERVING THE VHF-UHF DX ENTHUSIAST

THE VHF-UHF DIGEST IS THE OFFICIAL PUBLICATION OF THE WORLDWIDE TV-FM DX ASSOCIATION, DEDICATED TO THE OBSERVATION AND STUDY OF THE PROPAGATION OF LONG DISTANCE TELEVISION AND FM BROADCAST SIGNALS AT VHF AND UHF. W.T.F.D.A. IS GOVERNED BY A BOARD OF DIRECTORS: TOM BRYANT, GREG CONIGLIO, BRUCE HALL, DAVE JANOWIAK, AND BILL THOMPSON.

CIRCULATION: MATT SITTEL *EDITOR/PUBLISHER :* BILL THOMPSON
COMPTROLLER: DAVE JANOWIAK *CONVENTION CO-ORDINATOR:* TOM BRYANT

EDITORIAL STAFF: TOM BRYANT, GREG CONIGLIO, VICTOR FRANK, BILL HEPBURN, GEORGE W. JENSEN, JEFF KRUSZKA, WILLIS MONK, FRED NORDQUIST, MATT SITTEL, DOUG SMITH, THOMAS J. YINGLING, JR., JOHN ZONDLO
ORIGINAL COVER DESIGN: HARRY HAYES *BACK ISSUES:* DAVE NIEMAN

FROM THE STAFF:

CONVENTION NEWS UPDATE: As confirmed last month, the 1997 WTFDA convention will take place August 1, 2, and 3 in Georgia. Precisely WHERE, has turned into somewhat of a problem. The Cohutta Lodge site we visited about 10 years ago, and had planned to use again this year, will not be available. Our host John Broomall assures that another location will be secured as speedily as possible. If you wish to have your name placed on a list to get information on the final site selection as soon as it is available, write or e-mail John at WATC-TV 57; 1862 Enterprise Drive; Norcross, GA 30093; watctv@smart1.net. No one likes last-minute surprises, and the prevailing uncertainty may tend to be a bit unnerving; however rest assured that the announced dates will stand, and that we WILL meet in Georgia in August. Remember too, when it comes time to make reservations, neither the WTFDA nor our convention hosts are involved in lodging arrangements...they are up to each individual or group.

COUNT 'EM UP: A letter to the April *"MAILBOX"* column served as a reminder to re-print the WTFDA policy on counting stations for your statistics reports. Fred Nordquist is taking care of that detail in this month's issue. The 'rules' for FM and TV are similar, however there are differences. Please review them carefully; particularly if you're new to the club (or like many, tend to forget some of the details). The bottom line is that although the existing set of guidelines may not be perfect, or satisfy everyone, it has been in place for a long time and has served well to put everyone on 'an even playing field'. Of course, individuals may choose other counting methodology for their personal use, but please keep in mind that WTFDA requests that all who report their DX totals for VUD publication use the club criteria and no other.

NEED SAMPLE VUD's? It's getting to be the time of the year for dx club conventions and hamfests. If any of our members plan to attend one or more of these gatherings and would like some sample VHF-UHF Digests to hand out contact Dave Nieman at 12284 Nice Road; Akron, NY 14001-9529; or e-mail him at dxfmtv@buffnet.net to make arrangements. These events offer excellent opportunities to increase awareness of our organization and recruit new members. You are encouraged to take advantage of this potential tool to strengthen the WTFDA. If we don't toot our own horn, it's not likely that anyone else will do it for us.

WEBSITE: Have you visited the WTFDA website lately? David Austin continues to do an excellent job for us in this area. **http://www.users.sccoast.net/daustin/wtfda.html**

WTFDA Mailbox

Worldwide TV-FM DX Association
PO Box 17333
Asheville, NC 28816-7333

May, 1997 Edited by: Matthew C. Sittel. E-mail: 76255.2171@Compuserve.com

May, 1997 Renewal$ Due:

Greg Coniglio, Vernon B. Eaton, Jim Gill, John Griffiths, George Mileon, James H. Montgomery, Noble A. Moyer, Fred Nordquist, Rod O'Connor, Danny Oglethorpe, Keith D. Pugh, Kermit Reid, David A. Sinclair, Michael Wimer, Jeff Wolf, Robert Zent.

New member! Welcome!

Bill Dvorak, Madison WI

WTFDA MEMBERSHIP / CHANGE SINCE LAST MONTH: **269 / +1**
(total as of April 6, 1997)

---

* Danny Buntin, Stillwater, OK

And then there are the high powered affiliates as in the one on the Gulf coast of MS with coverage from New Orleans to Mobile as well as a high power in Wichita, KS. WAFR now has 130 stations. The American Family Association has been judging the morals of America especially as it relates to the media for 20 years. AFA started in late 1976 when Rev. Donald Wildmon was upset that there was nothing decent on TV that he could sit down with his family and watch. He got AFA started by condemning such shows as "All In The Family" and "Charlie's Angels" as morally unfit for TV and advocated boycotting the shows' sponsors. He later tried to get the feds in the censorship business by going to court to stop the showing of a foreign made film in America called "Damned In America". It concerned censorship in America. Wildmon lost. Critics have alleged AFA heads closely monitor TV shows condemned and that they read much smut marking and counting every nasty word along with every remotely suggestive phrase. So dear readers, if you are needing someone to tell you what to watch and not watch, what to read and not to read or what to burn then AFA was made for you. The conscience of AFA dearly wants to be your guide. Actually, I feel the Religious Right Movement is not in any position to do much to help or provide inspiring leadership to hold back the moral decline of America. Some of them preach against sin and then go and sin as they damn well please. One loud preacher that I quoted as saying, "I used to say that America was going to the dogs, but I had to stop out of respect for the dogs", has been criticized for divorcing and marrying a younger woman in his church. Recently, in Oklahoma City a Christian right group petitioned, without success, to ban the concert for the satanic rock group called Marilyn Manson. The publicity aroused curiosity, resulting in bigger ticket sales than expected. Society is so screwed up, it's pitiful.

Meanwhile, Lenny Goldberg stated in the February WTFDA Mailbox that I had commented that WAFR doesn't have a "message from the heart". That is totally false. I simply meant to comment that most FM stations only have music to get across to the people and not a heart felt message to get across as Rev. Wildmon of WAFR does, and so, hopefully we won't see all that many National FM translator networks. I, too, subscribed to the American Family Association newsletter, finding it very family unfriendly (not for the kids) with numerous pieces about abortion and homosexuality in each issue. In one interesting editorial, however, Wildmon advocates the renewing of broadcast licenses be decided at the local level. Let the FCC issue the initial license only. Last year WAFR began its own news service--"redefining the news", as the station's promo put it. It airs 5 minutes before most every hour. I listen to WAFR for entertainment purposes. I don't send the station money, but I do try to catch the political programming on WAFR. Wildmon's interview with David Horrowietz, a 60s, 70s leftist

turned right since the 80s was interesting. But I see the religious right folks as being so judgmental and self-righteous that if they had lived during the time of Jesus they, too, would join in with the crowds demanding His crucifixion because He healed the sick on the Sabbath, forgave an adulterous woman rather than go along with a crowd's desire to stone her, and ate with the chief of sinners. And as far as Goldberg's references to hatred are concerned, it is unfortunate that one can not criticize the various issues such as the homosexual or religious right agenda without someone calling it hatred to do so.

Next, concerning pirate radio, Goldberg commented, "What would be wrong with having hundreds or even thousands of new stations to try and ID?" Well, Goldberg must not have much DX blood in him to pose a question like that. Having thousands of low power FM stations in the USA could translate down to a dozen more FM stations in Goldberg's home town. Anyway, it will be interesting to see what becomes of pirate radio.

FOR SALE: **Pioneer Supertuner III**, IF modified (sockets for three filters)-order the filters of choice (110 kHz, 150 kHz, 180 kHz), auto-reverse cassette, line out jacks for recording to a tape deck, wiring for signal strength meter (you supply meter), all signal attenuating bypassed. Accepting offers (we'll start at $100). E-mail to **Steve Solomon** at modonnel@capecod.net, or mail to 31 Vernon St., Hyannis Park, MA 02601.

WTFDA E-mail directory (as of April 6, 1997)

Aden, Frank	ID Boise	WVLL23A@prodigy.com
Cherry, Mike	BC Salt Spring Isl.	mcherry@saltspring.com
Condon, Michael	WI Poynette	michael.condon@madison-business.com
Elya, Dennis	MO Jefferson City	delya@telcentral.net
		http://www.geocities.com/CapeCanaveral/Lab/3426/
Garcia, Fernando	NL Monterrey	fergamex@infosel.net.mx
Kadet, Jeff	IL Macomb	tvjunkie@macomb.com
Kruszka, Jeff	LA Baton Rouge	JTKruszka@worldnet.att.net
Lentz, John	WI Muskego	Jlentz@execpc.com
Locker, Ed	OH Newark	eddx39@alink.com
Miltier, Randy (KK7AY)	OR Ashland	cmasb@mind.net
Sittel, Matthew	NC Asheville	76255.2171@Compuserve.com

Do you have an e-mail account? If it isn't listed above, please send me an e-mail message requesting inclusion on this list, which will be updated regularly.

If you have a web page devoted to the radio hobby (be it DX, or radio in general), Fred Vobbe would like to include a link to your web site on the National Radio Club's web page (http://wcoil.com/~gnbc). Send Fred your information; he can be reached at: gnbc@alpha.wcoil.com.

That's all for this month. Remember: check for E-skip regularly...it's a good habit for good DX! 73s Matt.

SUPPORT YOUR CLUB! HELP SPREAD THE WORD ABOUT TV-FM DX'ING AND THE WTFDA!

SATELLITE NEWS

GEORGE W JENSEN
4604 ANNTANA AVENUE
BALTIMORE MD 21206-4220

Now armed with a new Uniden Supra Receiver, I am back on line. Listed below are changes that have occurred since we started the satellite transponder report - please, if keeping a list, make the appropriate changes

Satcom C1 -
9 - Fox Sports - no other details available
13 - Fox Sports Midwest - VC2 - delete Cal Channel
15 - Sports Channel Florida
17 - Cal Channel
18 - Fox Sports Rocky Mountains
21 - Fox Sports West 2 VC2

Satcom C4 -
12 - Global Shopping Network - delete NuStar/StarNet
15 - Animal Planet VC2 - delete WWOR New York

Galaxy 1
3 - delete Encore VC2
24 - Outdoor Channel

G-STAR 2 - 125 West - KuBand Only - still operating

Telstar 303 - 120 West - C-Band - still operating
19 - ABC Network

ANIK E2
5 - True Blue VC2

Now to continue from where we last left off ------

G-STAR 4 - 105 West - 1990 - Ku-Band only -
(10 Years) - Format - 16 Horizontal/17-32 - vertical
27 Watts
Used primarily for feeds - news, sports, educational, Court TV Backhauls

GE AMERICOM - GE1 - C and Ku-Band - October 1996 -
17 watt C-Band transponders = 60 watt Ku-Band Transponders
12 years - Format=Odds-Horizontal/evens-vertical - similar on Ku-Band
1 - feeds
2 - feeds
3 - feeds
4 - Fox Sports Channel - Cincinnatti, Florida,Ohio VC2
5 - feeds
6 - WNBC - Ch4 - New York, New York NBC VC2
7 - WPCB - Ch 40 - Greensburg/Pittsburgh, Pennsylvania
Cornerstone Television Network religious
8 - Fox Sports - Chicago VC2
9 - Fox Sportssouth VC2
10 - WJLA - Ch 7 - Washington, DC - ABC VC2
11 -
12 - feeds
13 -
14 - Fox Sports Channel - New England VC2
15 - ABC Television Leitch
16 - Fox Sports Channel Pacific VC2
17 -
18 - Sports Channel New York VC2
19 - NET - National Empowerment Television
20 -
21 - feeds
22 - ABC Television L
23 - ABC - Television L
24 - WRAL - Ch5 - Raleigh/Durham, North Carolina CBS - VC2 on the Ku-Band side
4 - NBC Feeds
9 - NBC feeds
12 - NBC feeds
20 - NBC feeds
22 - NBC feeds
25 - NBC feeds
27 - CycleSat News Feeds
29 - Chinese Television Network from Los Angeles
32 - Feeds

That's all for now -

See you in 30.

TV NEWS

May 1997

Douglas E. Smith W9WI
1385 Old Clarksville Pike
Pleasant View, TN 37146-8098
72777.3143@compuserve.com

*: Non-commercial station
nc: No Change
+/-: Channel offsets (plus, minus, zero, and none)
z/n:
s/b: Should be

APPLICATIONS FOR NEW STATIONS

An application has been filed for a new wireless-cable system at Hobbema, Alberta (coordinates & ownership unknown). All stations will have 20 watts power. Channels & programming proposed:

Ch. 19 WXYZ-7 ABC	Ch. 29 TSN (sports)
Ch. 21 WDIV-4 NBC	Ch. 33 TNN
Ch. 25 WTOL-11 CBS	Ch. 35 SuperChannel
Ch. 27 WTVS-56 PBS	Ch. 43 local community channel in English & Cree

Applications denied, dismissed, etc:

St	Ch	City
IA	**44**	**Sioux City (1 competing with KPTH-44)**
KS	**36**	**Hutchinson (3 dismissed)**
OR	**11**	**Pendleton (2 competing)**

Nine LPTV applications in the Rio Grande Valley of Texas have been dismissed. Channels 5, 22, 34, 38, 55, 60, and 66 were affected. The FCC Public Notices also listed an application for a LPTV on channel 13 at St. Cloud, Minnesota being dismissed, but I think that was a typo for channel 55 at Del Rio.

CONSTRUCTION PERMITS GRANTED FOR NEW STATIONS

St	Ch	ERP	HAAT	Call/ City; applicant	
SD	**46z**	**4000**	**607**	**Sioux Falls; KDLT-5**	**43-30-17N/ 96-33-22W**
TX	**55z**	**1039**	**104**	**Lake Dallas; D. Johnson**	**32-59-56N/ 96-55-02W**
		3310	**142**		**33-00-19N/ 96-59-00W**

See Other Stuff for more information on Lake Dallas. The Sioux Falls grant replaces one I mistakenly reported last month on channel 36.

APPLICATIONS TO CHANGE EXISTING FACILITIES

St	Ch	ERP	HAAT	Call	City	
CA	23-	12.2		K08LC	Sacramento	38-33-59N/121-48-46W
NY	35	10		WNYX-LP	Plainview	
TX	12+	0.115		K12OX	Crockett	
TX	**56z**	**5000**	**472**	**KETK-TV**	**Jacksonville**	**31-54-16N/ 95-05-07W**
UT	26	1.48		K06HY	Heber	40-33-45N/111-28-30W
UT	35	1.48		K09AM	Heber	40-33-45N/111-28-30W
UT	67	1.46		K13AK	Heber	40-33-45N/111-28-30W
WA	23-	nc		K23AS	Aberdeen	46-55-55N/123-44-05W

The application of WNYX-LP channel 44 to move to channel 66 has been dismissed at the request of the applicant; they've re-filed to move to channel 35. K43EM's application (Cheyenne, Wyoming) to correct its geographic coordinates and reduce antenna height by 6 meters (probably also a correction) has also been dismissed at the request of the station. And the FCC dismissed the application of K52EI Evanston, Wyoming to move to Henefer, Utah.

APPLICATIONS TO CHANGE CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City	
CA	17+	12.1		K17EF	Lompoc	
CA	**68z**	**nc**	**402**	**KWOK**	**Novato**	**38-09-00N/122-35-31W**
NY	31+	0.894		W31BP	Burlington	
TN	64+	6.7		W64CH	Cleveland	35-08-05N/ 84-37-21W
TX	64-	13.82		K64FD	Lubbock	
WI	65+	41.4		W65BT	Milwaukee	

CHANGES GRANTED TO EXISTING FACILITIES

St	Ch	ERP	HAAT	Call	City	
FL	13+	0.088		W13CU	Union Park	28-34-07N/ 81-13-56W
		(from W19AX, Kissimmee)				
GA	23n	9.1		W23AC	Albany	31-39-20N/ 84-10-30W
GA	42+	14.2		W42AO	Athens	
HI	42+	29.7		K42CO	Honolulu	
IA	52+	37.6		K52BH	Ames	
IA	60n	8.6		K60CL	Keokuk	
ID	15n	0.639		K15CH	Lewiston	
ID	19n	0.257		K19DQ	Montpelier	42-30-00N/111-20-19W
		(also applies to K21CE, K33DR, K54DY, and K56FM)				
ID	15n	16.2		K15DG	Pocatello	
IL	57z	31.7		W57BS	Alton (was N offset)	
IL	19+	6		W19BW	Casey (also applies to W36BR, W45BJ, W62CM)	
KS	25z	7.3		K25DS	Junction City	
KS	43n	14.2		K43EO	Topeka	39-03-51N/ 95-45-49W
KY	9z	0.008		WAPM	Lynch	36-54-50N/ 82-53-40W
LA	46z	7.41		K46DG	Lafayette	
LA	36+	188		K36ES	New Orleans	30-03-00N/ 90-22-41W
		(from K22DJ Donaldsonville. Also listed as 188 watts.)				
MD	43-	1.4		W43BP	Cresaptown	39-34-54N/ 78-53-58W
		(from W16AE)				
ME	57-	100.4		W57AP	Portland	
MI	40+	27.3		WMKG	Muskegon	43-15-06N/ 86-09-10W
MN	21z	1.17		K21AK	Appleton	
MN	50z	22		KQEG	La Crescent	
MN	65-	38.4		K65GV	Minneapolis	
MO	34-	5.9		K34CW	Kirksville	
MO	44z	12.8		K44DO	Osage Beach	39-09-24N/ 92-36-49W
MO	48-	42		K48ER	St.Louis	
MT	25n	14		K25BP	Billings	
MT	59n	19		K59DT	Bridger	
MT	66n	31.9		K66EQ	Colstrip	
MT	33n	3.8		K33EA	Columbus	
NM	**41z**	**1200**	**1256**	**KLUZ**	**Albuquerque**	
NM	55n	18.6		K55AM	Clovis	
NM	17	22.9		K15CV	Roswell	
NV	57z	1.5		K57FA	Las Vegas (TBN)	36-06-56N/115-09-12W
NV	**39+**	**2800**	**367**	**KBLR**	**Paradise**	**36-00-31N/115-00-22W**
OR	55n	10.3		K55HS	Salem	44-58-59N/123-08-39W
		(from K25EP)				
PA	26-	1.7		W26AD	Allentown	40-34-20N/ 75-25-21W
PA	**53+**	**5000**		**WPGH**	**Pittsburgh**	
TX	12+	0.115		K12OX	Crockett	
UT	44n	1.81		K44EA	Fillmore	39-02-10N/112-19-31W
UT	44n	0.774		K44FB	Leamington (from K03DX)	
WA	23-	nc		K23AS	Aberdeen	46-55-55N/123-44-05W
WI	**55-**	**5000**	**144**	**WHKE**	**Kenosha**	**42-45-38N/ 87-57-55W**
WV	**40-**	**3160**	**391**	**WLFB**	**Bluefield**	**37-13-08N/ 81-15-39W**

The wireless-cable system at St. James, Minnesota has been granted numerous power changes and several tower location and offset changes.

The new facilities: (all at 44-06-28N/94-33-55W)

K16CG, 16z, 0.992KW	K21DG, 21-, 0.754KW	K24CP, 24-, 1.1KW
K26CS, 26-, 1.13KW	K42AV, 42-, 1.32KW	K44AD, 44-, 1.35KW
K48AA, 48-, 1.39KW	K52AB, 52-, 1.44KW	K54AC, 54-, 1.46KW

CHANGES GRANTED TO CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City	
CA	21-	16.1		K21EV	Salinas	36-32-06N/121-37-09W
CA	28+	13.5		K28FK	San Luis Obispo	35-21-38N/120-39-21W
CA	42+	14		K42EL	San Luis Obispo	35-21-38N/120-39-21W
FL	59+	nc		W59DF	Jupiter	26-56-22N/ 80-07-04W
FL	20+	2.986		W20BG	Panama City	30-10-49N/ 85-42-05W
FL	19-	42.9		W19BT	Tallahassee	
GA	38-	115.5		WUBI	Savannah	
HI	31n	21.7		K31DT	Maui	20-49-24N/156-27-27W
		(also applies to K40FC/24.1KW, K57HJ/28.6KW, and K63FE/29.9KW.)				
HI	51n	49.36		K51EM	Wailuku	20-39-37N/156-21-34W

CHANGES GRANTED TO CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City	
IA	63z	2.06		K63GE	Davenport	41-32-49N/ 90-28-35W
IA	25-	1.3		K25FA	Iowa Falls	42-20-10N/ 93-28-00W
	(also applies to K27EW/1.32KW, K53FD/1.674KW)					
ID	56z	9.83		K56FQ	Boise	
	(also K60FH/9.8KW, K64EJ/9.66KW, K66EV/9.33KW, K68EJ/9.06KW)					
ID	51n	6.7		K51FI	Burley	42-29-28N/113-54-44W
ID	18n	2.508		K18EE	Hailey	43-38-36N/114-23-49W
ID	26+	22.9		K26EW	Idaho Falls	43-32-37N/111-53-07W
IL	48z	17.6		W48CG	Danville	40-07-26N/ 87-37-57W
KS	53+	12.3		K53EO	Wichita	37-41-12N/ 97-20-26W
KY	43-	18.6		W43BL	Bardstown	37-49-18N/ 85-26-47W
	(from Elizabethtown)					
KY	65+	13		W65CX	Elizabethtown	37-40-55N/ 85-50-32W
KY	**49z**	**nc**	**329**	**WDKA**	**Paducah**	**37-23-42N/ 88-56-23W**
KY	26z	6.04		W26BK	Talbert	37-11-34N/ 83-11-16W
LA	55z	2.8		K55HB	Natchitoches	31-47-12N/ 93-12-18W
LA	15+	40.18		K15EG	Shreveport	32-30-24N/ 93-45-01W
MA	43z	11.2		W43BQ	North Adams	(from W35BK, Plainfield)
MA	67+	1.6		W67DF	Springfield	
MD	52z	20.44		W52AS	Frederick	39-19-50N/ 77-31-29W
MS	49-	20.5		W49BX	Jackson	
MS	53-	20.5		W53BO	Jackson	
NV	61+	20.92		K61GV	Las Vegas	36-12-52N/115-09-18W
PR	33n	3		W33BN	Ponce	18-04-50N/ 66-44-54W
TX	63+	24.8		K63GD	San Antonio	29-31-25N/ 98-43-25W
TX	68n	8.16		K68FP	Seminole	32-42-29N/102-38-00W
	(from K65GJ, Hobbs NM)					
VT	19-	0.938		W19BR	Monkton (from Plattsburgh, NY)	
WA	**24z**	**302**	**745**	**KBCB**	**Bellingham**	**48-40-45N/122-50-31W**
WA	18+	2.63		K18FB	Clarkston	46-27-04N/117-02-48W
WV	49+	20.9		W49BN	Huntington	38-23-30N/ 82-35-22W

The modification of the permit of WWRS-52 Mayville, Wisconsin (for 5000KW/314m at 43-16-25N/88-23-57W) has been rescinded.

TECHNICAL CHANGES ON THE AIR

AK	66n	K66CF Palmer (power decrease, move 15km SSE)
AL	39n	WETU-LP Montgomery
CA	27-	K27EU Sacramento
ME	17n	W17BN Madawaska
MS	63-	W63BK Meridian
PA	**19+**	**WTWB-TV Johnstown (this station has also applied to reallocate channel 19 to Jeannette, about 30km east of Pittsburgh. I don't think they can move the transmitter though, because of WOIO-19 near Cleveland.)**
WA	18+	K18FB Clarkston
WY	**20-**	**KFNB Casper (major tower height increase and minor power decrease)**
WY	32n	K32EL Shoshoni

NEW STATIONS ON THE AIR

Call:	Ch:	Location:	Power & HAAT:	Coordinates:
K04NJ	4+	Fresno, CA	0.216KW	36-44-45N/119-16-57W
W10CM	10-	Hilliard, FL	0.135KW	30-41-18N/ 81-55-36W
W17BN	17n	Madawaska, ME	9.5KW	47-19-47N/ 68-20-56W
W31BO	31z	Alpena, MI	9.05KW	45-03-46N/ 83-42-56W
WJUE	**43-**	**Battle Creek, MI**	**5000KW/323m**	**42-40-45N/ 85-03-57W**
K35EF	35n	Aitkin, MN	9.18KW	46-32-05N/ 93-52-41W
K26EC	26z	Poplar Bluff, MO	0.738KW	36-48-04N/ 90-27-06W
K15EW	15n	Kalispell, MT	10KW	48-30-22N/114-20-49W
W22BM	22+	Cranford, NJ	15KW	40-40-55N/ 74-23-43W
WNGS	**67+**	**Springville, NY**	**38.9KW/160m**	**42-24-16N/ 78-39-53W**
W60BY	60n	Syracuse, NY	1.3KW	43-00-19N/ 76-07-48W
K45EJ	45-	Enid, OK	27.6KW	36-28-17N/ 97-56-23W
K33EK	33+	Tulsa, OK	48.9KW	36-11-27N/ 96-05-33W

NEW STATIONS ON THE AIR

Call:	Ch:	Location:	Power & HAAT:	Coordinates:
CHCHn	**11**	**Ottawa, ON**	**?**	**?**
CITY3	**65z**	**Ottawa, ON**	**500KW**	**45-13-01N/ 75-33-51W**
K45ED	45z	Grants Pass, OR	10.5KW	42-27-06N/123-17-47W
K44DZ	44z	Klamath Falls, OR	10.5KW	42-05-48N/121-37-57W
WDZE	**52z**	**Carolina, PR**	**661KW/585m**	**18-16-44N/ 65-51-12W**
W04CY	4z	Knoxville, TN	0.03KW	36-00-08N/ 83-56-41W
K12ON	12z	Bryan, TX	0.093KW	30-39-02N/ 96-20-57W
K12OX	12+	Crockett, TX	0.115KW	31-17-36N/ 95-28-53W
K18FB	18+	Clarkston, WA	2.63KW	46-27-04N/117-02-48W
W25CA	25+	Ashland, WI	1.25KW	46-35-24N/ 90-53-03W
WWRS	**52z**	**Mayville, WI**	**10KW/120m**	**43-26-11N/ 88-31-34W**

STATIONS DELETED/DISMISSED/ETC.

St City	Call	
NY Andover	W61AJ	actually still licensed, but Dave Nieman says it's off. WNED-17 xltr.
TX Lake Dallas	**KLDT-55**	**See Other Stuff, I'm not sure it's gone.**

Also, 121 LPTV CPs have been deleted, including wireless-cable systems at Hilo, Hawaii and Casper, Wyoming.

CALL CHANGES

Was:	Location:	Now:
K58FA	Little Rock, AR:	KKRK-LP
K58FJ	Cathedral City, CA:	KVCC-LP
W10CG	Hartford, CT:	WHTX-LP
new-44	**Sioux City, IA:**	**KPTH-44**
W30AL	Plano, IL:	WSPY-LP
KLFT-LP-21	Lafayette, LA:	K21DM
W19BN	Defiance, OH:	WDFM-LP
K25AS	Eugene, OR:	KEVU-LP
KEVU-34	**Eugene, OR:**	**KLSR-TV**
NEW-46	**Sioux Falls, SD:**	**KDLV**
K55AA	San Angelo, TX:	KTXE-LP
K26EJ	St. George, UT:	KDLU-LP

PROGRAMMING CHANGES

W63CK	Sylacauga, AL:	religious
W47BS	Talladega, AL:	religious
K36EL	Bakersfield, CA:	"KBFK", The Box
KVCC-LP-58	Cathedral City, CA:	VCC home shopping? (presumed from call)
KCNS-38	**San Francisco, CA:**	**to Global home shopping**
K23DT	Tahoe City, CA:	relays KAME-21, UPN
W10CM	Hilliard, FL:	educational
WNGM-34	**Athens, GA:**	**to Global home shopping**
KPTH-44	**Sioux City, IA:**	**to be Fox when built**
W17BN	Madawaska, ME:	TBN
W31BO	Alpena, MI:	relays WGKI-33 Cadillac (Fox/UPN)
K35EF	Aitkin, MN:	relays KBJR-6 Superior, WI (NBC)
K35CT	Kansas City, MO:	sold to ValueVision
K48FS	Kansas City, MO:	sold to ValueVision
K28FB	Bozeman, MT:	relays KWYB-18 Butte (ABC)
W25BR	Charlotte, NC:	sold to ValueVision
WRAY-30	**Wilson, NC:**	**to Global home shopping**
WNDS-50	**Derry, NH:**	**to Global home shopping**
K26EP	Dulce, NM:	relays KRQE-13 Albuquerque (CBS)
K17CA	Carson City, NV:	relays KRXI-11 (Fox)
K57CV	Carson City, NV:	relays KAME-21 (UPN)
K44BE	Fallon, NV:	relays KAME-21 (UPN)
K35AX	Hawthorne, NV:	relays KAME-21 (UPN)
K34BL	Lovelock, NV:	relays KAME-21 (UPN)
K55DP	Reno, NV:	relays KRXI-11 (Fox)
K67ET	Silver Springs, NV:	relays KAME-21 (UPN)
W51CN	Forestville, NY:	relays WNYO-49 Buffalo (WB)

PROGRAMMING CHANGES

WOAC-67	**Canton, OH:**	**to Global home shopping**
W53AX	Cleveland, OH:	sold to ValueVision
K45EJ	Enid, OK:	FamilyNet
K33EK	Tulsa, OK:	FamilyNet
CKCO4-11	**Huntsville, ON:**	**will remain CKCO-13 relayer**
CFPL-10	**London, ON:**	**will not affiliate with CTV**
CKCO2-2	**Wiarton, ON:**	**will remain CKCO-13 relayer**
CHWI-16	**Wheatley, ON:**	**will not affiliate with CTV**
KEVU-LP	Eugene, OR:	from Fox to UPN? (see note)
KLSR-34	**Eugene, OR:**	**from UPN to Fox? (see note)**
K11RM	Silver Lake, OR:	relays KOBI-5 (NBC)
WTVE-51	**Reading, PA:**	**drops home shopping, now independent**
K50EI	Ballinger, TX:	TBN
K08MK	Corpus Christi, TX:	Tejano music videos, "KOST", maybe also UPN
K55FV	Houston, TX:	sold to ValueVision
K21DZ	San Antonio, TX:	Tejano music videos, "KXTM"
K35EK	Sweetwater, TX:	relays KIDY-6 (Fox)
	(TBN and KIDY swapped this one and K50EI)	
K27EZ, K59FQ, K64EQ	Victoria, TX:	all three purchased by KAVU-25
K15DE	Ellensburg, WA:	relays KSTW-11 (WB)
K41CU	Port Townsend, WA:	relays KSTW-11 (WB)
KSTW-11	**Tacoma, WA:**	**to WB, not UPN**
KTZZ-22	**Seattle, WA:**	**from WB to UPN?**
W22BW	Sturgeon Bay, WI:	from WGBA-26 to WACY-32 (UPN)

In Eugene, Oregon, K25AS had been using the "fake calls" KLSR, and was a Fox affiliate. I'm assuming the call-letter swap between this LPTV and co-owned full-license channel 34 accompanies a trade of affiliations, but that's really just an educated guess. CFPL-10 has changed its mind about affiliating with CTV, a move which affects three other stations. In Seattle/Tacoma, earlier publicity had KSTW-11 going from CBS to UPN, but now it's been sold to Tribune Broadcasting, half owners of the WB network.. KTZZ-22 had been a WB affiliate; I assume it'll switch to UPN.

OTHER STUFF

Not much going on in Canada this month. Looking at the Hobbema, Alberta wireless cable application and some other recent cable actions, it looks like Canadian wireless (and wired) cable systems that used to carry WJBK-2 when it was CBS have now switched to WTOL-11. (I actually suspect this change happened quite some time ago. I noticed WTOL-11 on cable in Bethany, Missouri (?!) last summer on my way to the WTFDA Convention, presumably via Canadian satellite..) Thanks to Bill Draeb, Fernando Garcia, and Steve Ryan for some of the information above.

The big news is the adoption of regulations and a phase-in scheme for digital TV. There'll be more details at the end of the column in a separate section "DTV Q&A". One very important thing to note -- the FCC may have changed its mind about eliminating low-band VHF!

Another TV-related item you may have seen in the general-interest press was the upholding of the must-carry regulations by the Supreme Court. This was a major surprise, as most observers expected the regulations to be ruled unconstitutional. As it turns out, the vote was close, 5-4. The decision will probably encourage independent, home-shopping, and religious stations to complete construction of existing CPs and expand the coverage of existing stations.

I have listed the licensed technical facilities of KLDT under those specified on the Johnson CP. If KLDT has, in fact, been canceled, I strongly suspect they'll sell their transmitting equipment to the new licensee, and the CP will be modified to reflect the second set of numbers. But an item in *Broadcasting and Cable* says Douglas Johnson, owner of the competing applicant, has agreed to purchase KLDT's license from Paxson Communications. (INtv) The whole mess has ended up in federal court (here in Tennessee, for some reason!) over a claim that Paxson prevented the Shop-At-Home home-shopping channel from exercising an option to buy 49% of the station.

WWRS-52 is reportedly a TBN. At this power level, they're weaker than most LPTVs. I'm not actually convinced it's on -- an application for operating license hasn't cleared the Public Notices. (and John Lentz in Muskego, Wis. says he isn't seeing it there) But the FCC database, as of March 28, listed it as licensed. Speaking of TBNs, a major owner of TBN affiliates in the South has sold their stations to All-American TV. There had been some common ownership between Sonlight Broadcasting and TBN itself, and I

suspect Sonlight feared losing the licenses if the challenge to KNMT-24's license succeeded. All-American is an independent operation and should have no ownership problems. (but don't expect much change in programming. All-American's stations may not be owned by TBN, but they run mostly TBN programming.) Stations affected are WMPV-21 Mobile, WMCF-45 Montgomery, WELF-23 Dalton, GA (Chattanooga), WBUY-40 Holly Springs, MS (Memphis), and WPGD-50 Hendersonville, TN. (Nashville)

There have been three tower collapses, and four stations at least temporarily off the air, in the last month. KNOE-8 lost its tower in early April while workers were replacing structural parts. (this is the same kind of work that was in progress when KTVO-3's 2000-foot tower in Missouri collapsed several years ago) One worker was killed and two others seriously injured. KLTM-13 was also on this tower. (I told some people on the Internet I thought new station KAQY-11 was going on this tower too. Not true; KAQY's CP puts its antenna on the KARD-14 tower.)

KXJB-4 Valley City (Fargo), North Dakota lost its tower to a severe ice storm on April 5. And new station WBKP-5 Calumet, Michigan lost the top 100' of its tower (but surprisingly not the rest!) in late winter. I suspect WBKP is already back on the air at nearly full power. Speaking of WBKP-5, the station is engaged in a bit of wishful thinking.. It's placed ads in trade magazines looking for personnel for "ABC 5 and 10". The only evidence I can find of a channel 10 is an application for a new station at Ishpeming, Michigan (near Marquette) - but there are several competing applicants.

An item in *Broadcasting and Cable* says KING-5 has signed an LMA with long-dormant CP KONG-16 and plans to put it on the air this fall. It's time to break out the "King-Kong" jokes...

FORUM

Chris Cuomo, Verona PA:

Chris has a few words about LPTV in Pittsburgh.. First, while WBPA-LP channel 29 is usually parallel to WTWB-19 Johnstown, the relay isn't 100%. For example, at 8:20am channel 19 has the Flintstones, while 29 airs a program from America 1 TV. Both stations use the slogan "WB19", but WBPA-LP pops up a legal ID on the hour. (over WTWB's ID) Incidentally, Chris has heard nothing of plans for WBPA-LP to move to channel 32. Also in Pittsburgh, W59BT is now running both All News Channel and NET.

Jerry Stuart, Lawton OK:

Jerry has some LPTV notes in his area too. First, with regard to 3ABN affiliate K15DJ, Jerry says it's running about 10% of its licensed power of 74KW ERP. Their engineer told him they could only afford a 100-watt transmitter, rather than the 1KW unit authorized. K15DJ's picture is about 70% quieting at Jerry's location, while K53DS (same tower, licensed for 35.3KW) is 100%. (both stations are directional though. I don't know which direction, nor do I know if both go in the same direction)

Oklahoma ETV is no longer listing a translator in Elk City. (Jerry says Fernando Garcia reported seeing one in February Western TV) Elk City is within the coverage area of KWET-12 Cheyenne; none of OETA's translators are located within the coverage area of any of their full-license stations. (there are, however, several privately-owned translators in Elk City. I don't have any record of programming on three of them; might one be a KWET translator for some reason?) Jerry sent an OETA network map I'll try to print someday if space permits.

TBN K27AZ is facing a forced move; the building their on has been closed. I don't see anything in the FCC about a change here, but they have until June. And Locke Supply's (KSBI-52) station K21DC has been off for about a month. (written in late February)

Dennis Smith, Santa Barbara CA:

Dennis has taken another trip through central California, commenting on LPTV in the Bakersfield area. K36EL is now on the air there with The Box, and signing "KBFK". Legal calls are still K36EL. The station relays K34AV (which signs "KSDI") Fresno, with the two stations airing dual "fake call" IDs. Another LPTV using "fake calls" is K52DJ Bakersfield, signing "KSUV-TV 52 The Pride of Bakersfield" in English, but airing Spanish-language programs. K50CL McKittrick (an educational station) was not seen and appears to be off the air. And in Fresno, K69GV (which operates on channel 68 under special temporary authorization) has switched from VCC home shopping to Shop-At-Home.

73 Doug

DTV Q&A

(by Doug Smith, TV News editor)

Bill Eckburg & Tom Bryant were discussing the new digital TV schemes in March, and came to the same conclusion -- there's a whole lot of uncertainty about it in the club, and a whole lot of curiousity. Tom submitted some specific questions, and I added a few more I composed myself. The answers are, for the most part, my personal opinions or observations. There has been surprisingly little hard scientific research on many of these issues (especially as to interference and coverage areas) so there really aren't many facts to report!

- What exactly is digital TV? How is it different from the current NTSC system?

NTSC TV is an "analog" system. That is, the transmitter sends a RF signal whose strength follows (is 'analogous to') the brightness of the picture at any given point. Color is transmitted by making small changes in the frequency of the RF signal; again, the frequency is "analogous to" the hue of the screen at a given point. NTSC TV sound is a completely different system; in fact, at most NTSC stations the sound transmitter shares only the power supply and control panel with the picture unit. The rest of the circuitry is totally separate and could function as a FM radio station independent of the picture transmitter.

DTV, on the other hand, is "digital". The transmitter sends a series of pulses, which are interpreted as numbers. ("digits') In theory, these numbers could represent anything -- the balance in each account of every NationsBank customer, the 40-yard dash time of every sixth-grader in Texas, the depth of the Mississippi River every 2 miles. For DTV, they represent the brightness and hue of a TV picture at any given point. And, they also represent the sound.

- What are the advantages and disadvantages of DTV and NTSC?

NTSC TV is relatively easy to implement. You scan an electron beam across a target in a camera tube, collect the resulting varying current, amplify it, transmit it along with synchronizing signals, receive it, amplify it again, use the synchronizing signals to scan an electron beam across a target in a picture tube, and use the amplified signal to control the strength of that electron beam. This has been possible since the mid-1930s, and can still be done with a relatively small amount of relatively simple circuitry. Of course, simple circuitry leads to low cost.

But the brightness of the picture at any point on the screen is determined by the strength of the received signal at the time that point is scanned by the electron beam. In theory, only intentional changes in signal strength (resulting from a change in the amount of light striking the camera tube at the station) should cause visible effects on the picture tube. But in practice, any signal that the TV set sees will modify the displayed image. This includes copies of the TV picture coming from another source ("ghosts"), interference from non-TV radio transmitters, noise from computers or power lines, the random shot noise generated in all electronic components & visible as "snow" on weak signals, sporadic-E, whatever. All of this appears on the screen (or in the sound) of the NTSC receiver as interference or noise.

Digital TV is somewhat more expensive to implement. Camera tubes and picture tubes are inherently analog devices. All the NTSC circuitry necessary to scan the beam across the camera tube and picture tube targets, and to collect, amplify, and transfer the current, will still be necessary for DTV. So will the transmitting and receiving antennas and RF amplifier circuits. In addition, circuits will be required to convert the analog signals to digital at the station, and back to analog at the receiver.

There are some serious advantages to DTV though. The most important to the viewer is noise and interference immunity. The DTV picture is represented by a series of pulses representing a number; those pulses are either present or not present. The receiver knows when to expect those pulses and what they should look like. So, if a non-TV signal (like a burst of lightning static) appears, the TV will know there isn't supposed to be a pulse there, and will ignore it.

Error-detecting and correcting codes will also be used in the DTV signal. By transmitting some extra bits with the signal, the receiver will be able to tell whether a given number has been garbled in transmission If the error isn't too serious, it will even be able to tell what the number was supposed to be, and fix it. (if it can't correct an error, it won't display the erroneous data. It might replace it with a pixel of black, or use the average of adjacent pixels.)

The other important advantage of DTV is "scalability". The DTV standard simply comprises a way of broadcasting a large number of numbers in a short time. Neither the transmitter nor the antennas care what those numbers represent. Stations will be required to transmit one regular-definition TV program, but

beyond that they have numerous additional options. They might transmit one high-definition program. Or they might transmit two regular programs, 20 channels of digital audio, and provide one side of an Internet access scheme. (the IVDS service, operating around 219MHz, might provide the return path) The possibilities are literally endless. While the required regular-definition program must be free-to-air, any additional programs might be subscription operations bringing additional revenue into the station. It is likely Congress will levy a spectrum tax on such subscription operations. (and in my opinion, they should.)

- What's the difference between DTV, ATV, ADTV, HDTV, etc.?

You've seen a lot of "alphabet soup" over the last few years. The specific terms:

ADTV - **A**dvanced **D**efinition **TV**. Any system that provides a picture with better resolution than NTSC.
ATV - **A**dvanced **TV**. Any system that offers more features (better resolution, less noise, less distortion, multi-channel compression, etc.) than NTSC.
DTV - **D**igital **TV**. Any TV system that uses digital signals instead of analog, even if the picture quality is no better than NTSC.
HDTV -**H**igh **D**efinition **TV**. Similar to ADTV but usually implies even higher resolution and picture sharpness. Usually used for systems with at least "twice" NTSC's 525-line resolution.
NTSC -**N**ational **T**elevision **S**ystems **C**ommittee. This organization was originally formed in 1941 (?!) to establish standards for black-and-white TV. It was reestablished in the early 1950s to develop a standard for color. Their 1953 color standard is still used today, and has taken on the committee's name.

- Will we be able to dx DTV stations?

Definitely. In some ways it'll be more difficult than NTSC. CCI and "floaters" will essentially disappear -- if interference is relatively weak, you won't know it's there; if it's strong, neither signal will be at all intelligible. If "core spectrum" is defined as channels 7-51, E-skip will also become a thing of the past.

On the other hand, tropo will always work on UHF! And, it's likely an ID will be part of the bitstream, so your catches shouldn't get away because of a poorly-timed fade. E-skip signals are generally quite strong. As long as CCI isn't too severe, it should be possible to receive at least brief snatches of skip-propagated DTV signals. Since an ID is likely to be transmitted with every frame, that should be enough to figure out what you saw. Also, it's quite likely the reaction of a DTV receiver to a fading signal will be very different from the reaction of an analog set. Rather than losing synchronization and going to snow, the DTV set is likely to freeze the last received frame.

The continuous ID should also help with meteor-scatter DXing. Aurora and F2, however, will probably not yield DTV pictures. These two propagation modes provide strong multiple paths (ghosts) of distant signals. With NTSC, ghosts are an annoyance. But they can quickly kill a data stream. Logging a DTV signal by one of these modes will be quite an accomplishment.

If low-band VHF is eliminated, there will be a "transition" period of very good foreign DX. As I mentioned above, the transition to DTV will take longer abroad. A VHF-low dial nearly devoid of USA stations will allow relatively weak double- (and triple or quadruple!) hop skip signals from exotic parts of Latin America to come in. Even stations in the USA will probably fade away gradually, allowing some exotic distances to be covered domestically.

- Will I need a different antenna/amplifier/feedline to DX DTV?

No. When I bought my current UHF antenna a few years back, I noted the box said "High Definition Color Antenna - Stereo Certified". The only one of those six words that really had any significance was "Antenna"... Just as any decent antenna for black-and-white service will deliver good color and stereo, it'll also deliver good digital signals. The job of your antenna, feedline, and preamp are to pick RF signals out of the air & deliver them to your TV/VCR. These devices don't know -- or care -- whether those RF signals are digital or analog.

- Will my VCR work with DTV?

No. Just as your TV depends on receiving a NTSC signal for proper display, your VCR depends on a NTSC signal for proper recording. DTV VCRs will become available about the same time DTV TVs come on the market. You'll always be able to play your NTSC tapes on a NTSC VCR into a NTSC TV. However, you won't be able to mix the systems -- you won't be able to play DTV tapes on a NTSC VCR,

or play a DTV VCR into a NTSC TV. The same system adaptor that will let you watch DTV stations on a NTSC TV will also work with a NTSC VCR, allowing you to record DTV programs on it. (but if you want to watch one program while taping another, you'll need two adaptors)

- How soon will I begin seeing DTV signals?

If you live in the right city, they're already there.

DTV stations currently holding experimental CPs: (11 April 1997)

Location:		Call:	Channel:	
DC	Washington	WHD-TV	(three different UHF channels, including 24 and 27)	
DC	Washington	WETA-HD	34	
NC	Raleigh	WRAL-HD	32	
NY	New York	WCBS-HD	33	
OR	Portland	KOPB-HD	??	
WA	Seattle	KOMO-HD	??	
WA	Seattle	KCTS-HD	??	(KCTS may have DTV production facilities only, no transmitter)

The DTV rules adopted on April 3 require all ABC, CBS, Fox, and NBC affiliates in the top-10 markets to have a DTV signal on the air in two years, and in the top 30 markets 6 months later. Smaller commercial stations have five years to begin DTV broadcasts; non-commercial stations have six years. Several top-10 market broadcasters have already committed to a more ambitious schedule, planning DTV signals within 18 months.

Unless the cost of equipment declines considerably, or stations find a surprise source of considerable revenue, I expect some small-market stations to "commit suicide". They'll find it impossible to obtain enough revenue to cover the costs of DTV, and will go permanently dark instead. Some other small-market stations (and smaller PBS stations) are likely to become satellites of stations in nearby larger cities.

- When will NTSC signals go away?

FCC plans call for NTSC to end in 2006. However, their DTV rules also call for a review of the progress of the DTV conversion every two years. They could concievably end NTSC sooner (not likely) or later (quite likely) than 2006. In fact, the Telecom Act that passed last year requires the Commission to review the proportion of the public capable of receiving DTV signals before shutting down NTSC operations.

- What will be seen after stations begin to disappear?

Lots of foreign unIDs <grin>... Those channels outside "core spectrum" (see below) will probably begin to clear gradually, with some stations simply deciding not to repair their NTSC transmitters after expensive breakdowns. All NTSC broadcasts are currently scheduled to end by 2006, though I suspect the phaseout will be litigated by small-market stations. Eventually, either the mandatory shutdown will be approved by the Supreme Court & everything will happen at once, or the last NTSC transmitter will die & it'll become a moot point. Canada and Mexico will probably find it necessary to follow suit, but a few years later. Cuba and other Latin American countries likewise, but even later. If NTSC goes off the air here in 2006 (as currently planned), I would expect to see it continue in Latin America until at least 2015.

- What will I see if I tune in a DTV broadcast on my NTSC TV? How about if I tune in a NTSC broadcast on my DTV set?

I'm afraid someone in one of the existing DTV cities is going to have to answer your first question. My guess is it will be just so much noise. But there might be some kind of regular pattern to it.

As for the second question, you'll probably get a black screen. The NTSC sync pulses and analog video information will be meaningless to the digital circuits in the DTV receiver; they won't even convert to "snow". Actually, I suspect at least early DTV receivers will include a "NTSC emulation mode"; if they detect a NTSC signal on the channel you select, they'll bypass the digital circuitry and display the NTSC picture just as a current TV does.

- I hear about "core spectrum", "refarming", the deletion of VHF, and the auctioning of channels 60-69. Exactly what channels will be used for DTV?

Contrary to early publicity it appears the FCC may not be eliminating VHF TV. Early DTV plans called for all DTV assignments to be on UHF, though some early channel plans called for temporary new short-spaced NTSC assignments on VHF to allow existing UHF stations to convert their existing channels to DTV. (some may remember the table with one low-band assignment, for channel 2 at Scranton, Pennsylvania..)

In late 1996, a "core spectrum" plan was released. Under this plan, DTV assignments would be made in channels 7-59. After a phase-in period for NTSC receivers to fade away, NTSC licenses would be surrendered. With the NTSC channels empty, DTV stations could be "refarmed" into the "core spectrum" of channels 7-51. Under this scheme, the high-band VHF channels 7-13 would remain available for TV indefinitely. Not much benefit for skip DXers, but at least E-skip DX is possible at channel 7. Now, in the news release covering the final DTV rules, the FCC has suggested it might redefine "core spectrum" as channels 2-46. **THIS WOULD MEAN LOW-BAND VHF WOULD SURVIVE INDEFINITELY.**

Note that the concepts of "carrier frequencies" and "offsets" go away in DTV. On a NTSC channel 4 station, the picture is transmitted on a carrier frequency of 67.25MHz (and because of modulation effects, it spreads down 1.25MHz and up about 4.2MHz from there), and the sound is on a frequency of 71.75MHz. (and spreads about 50KHz either side of that frequency) But a DTV station on channel 4 will have a variety of pulse signals spread throughout the channel, between 66 and 72MHz. The exact frequencies used will vary with the program material. You won't be able to separate DTV stations on the same channel by their offsets.

- What sort of service will get the existing TV freqs in a re-allocation process?

Good question. In my opinion the deletion of VHF-low really wouldn't make much sense, as few services really want that kind of frequency. Too much E-skip. Indeed, it appears likely amateurs will receive a new band near 41MHz in the 1999 world radio conference. On the other hand, keeping it for TV wouldn't help much either, as very few DTV assignments could be made in VHF-low without causing interference to existing NTSC stations. I would guess it'll end up carrying unlicensed very-low-power devices like baby monitors, garage door openers, cordless phones, etc.. Or, as now appears possible, existing low-band stations might keep their old channels.

The chunk of UHF they seem to be getting (channels 60-69 almost from the beginning, and channels 52-59 or 47-59 in 2006) will be much more popular. The Commission is likely to give four channels to public-safety radio. (police, fire) I'm sure the other top channels will end up in cellular-telephone service. Cellular airtime is already so valuable the FCC has considered allowing UHF stations to sell their channels for that service.

VHF-high now appears likely to remain in TV service forever.

- How are they going to shoehorn two transmitters for every station into the band?

Many UHF channels are currently unavailable because of "taboos", restrictions caused by receiver shortcomings. For example, there are prohibitions against use of channels less than 6 apart at the same site, or against use of channels 15 apart. Modern TVs can certainly handle UHFs as close as 2 channels apart, and some of the other taboos can be cleared too. That allows assignment of channels not currently available. But we really don't know how strong a DTV signal can be before it interferes with NTSC. (or vice-versa) It's extremely difficult to predict interference with only two or three transmitters on the air.

- What about the sound?

In DTV, sound becomes part of the datastream. There is no separate sound carrier. (so it's likely there will be no such thing as a 'TV sound radio') Potentially, several dozen sound signals could be transmitted along with the TV picture. It is, in fact, quite possible this will be done by many stations. However, for economic reasons at the time of program production, it's unlikely that more than four of these sound channels will be related to the TV picture. (the rest will probably comprise a digital radio service) This will be digital audio, with full CD quality. In multilingual areas, simultaneous translation is likely -- in unilingual areas, true theater surround sound is possible for those programs which it would benefit.

- How much will a DTV receiver cost?

Early news releases suggest the first sets will cost about $2,000. They will eventually decline in price, but how much is a good question. It really depends on how many people buy DTV equipment. I can't really suggest a good floor price -- there is no technical reason a DTV receiver delivering a NTSC-quality picture & sound couldn't be made for the $200 a color set costs today. However, while satellite HDTV has been available in Japan for years, the sets still cost over $2,000 because few of them have sold. The cost of a DTV set could actually rise towards the year 2006 if it becomes apparent people will have to buy or go without television.

- Can I convert my NTSC TV to receive DTV signals?

Extrenal adaptors will be available. Prices quoted have been between $300 and $700. One adaptor is required for each NTSC TV and each NTSC VCR. In my opinion, it's likely cable converters will include DTV adaptors; of course, this doesn't do the DXer much good! As with the DTV receivers themselves, the price of an adaptor will likely decline; I suspect the final price will be somewhere between $75 and $300.

Building an adaptor at home is a task beyond the capability of the electronic hobbyist. (unless you have extensive experience in high-speed digital circuits, machine-language programming, RF design, and digital-to-analog conversion. And a VERY well-equipped test equipment bench.)

- My Congressman says broadcasters should bid for their DTV channels at auction. Is he right?

The government plans to provide every existing TV station and construction permit a second channel. After 2006, stations are to return their current channel (if their second assignment is in 'core spectrum') or their second channel (if their second assignment is outside 'core spectrum') to the government for reassignment. Under current plans, stations will not be charged for the second channel.

Some in Congress have called this a giveaway, and have suggested a fee should be charged for the second channel. Others suggest the second channels should be auctioned, with the government keeping the proceeds. (they don't explain how an auction is supposed to work if there's one channel for every bidder! -- seems to me each station would bid $1, knowing there were definitely going to be enough channels to go around...)

I'm biased: I work for a broadcaster. But my personal opinion is that broadcasters are already paying a steep price for DTV. We're required to install a second transmitting facility within 3-5 years. (and the vast majority of transmitting equipment is made by USA companies at plants in the USA that pay taxes in the USA) We face steep expenses for new studio gear. And there's no promise (indeed, no likliehood) of enough additional revenue to cover the expenses. As it is, some small-market stations may have to go dark rather than convert. Add a spectrum tax, and the number of choices for the over-the-air viewer declines further. I encourage you to make up your own mind and inform your representatives of your beliefs.

- What's going to happen in Canada and Mexico?

I have heard nothing official from Canada or Mexico about DTV. Canada is pretty busy rolling out digital radio (at which they're much further developed than the USA) and is facing some serious policy questions about various types of wireless cable. Mexico is rolling out additional NTSC networks across their territory.

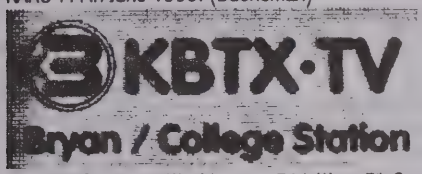
Because of the proximity to the border and the "500-pound gorilla syndrome", both countries will have to eventually switch to US-standard DTV. However, Canadian television isn't nearly as profitable as U.S. TV, and Mexican stations have a substantial investment in new NTSC equipment that I'm sure they aren't anxious to obsolete. (Televisa's Tres Padres transmitting facility outside Mexico City is the largest & most technically advanced such installation in the Western Hemisphere, and quite possibly in the world)I would expect the DTV conversion to take easily 20 years in these countries.

Channel reassignments might happen much sooner though. Most Americans think Ontario is a state, so I'm sure the "Welcome to Canada" sign isn't going to dissuade anyone from trying to use their wireless computer network adaptors -- that happen to operate on TV channel 57 -- at a Toronto technical seminar. Canadian (especially) and Mexican stations operating on channels no longer used for TV in the US will suffer serious interference from visiting Americans, American installations near the border, and equipment their own citizens bring back from the U.S.. I would expect to see all Canadian and Mexican stations outside "core spectrum" moved to new channels by 2006.

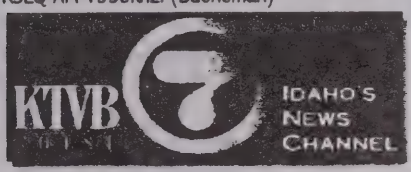
QSL Corner & Logos Run

Thomas J. Yingling, Jr.
221 Pinewood Road
Baltimore, MD 21222-2345
E-Mail: KA3TCC@JUNO.COM

MO KARO 101.5 Columbia, 503 Old Highway 63 North, zip 65201. Letter verie, coverage map, & audience profile signed by Al Germond, President of Columbia AM/FM Inc. Letter states that the station had been on 101.5mhz since 2-26-92, with erp of 20,000 watts at 640 feet. Also send separate verie letter from sister station KFRU-AM 1400khz and says they move in with KARO-FM in June 1993. (Bueneman)



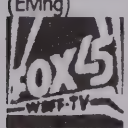
MO KSLO 104.5 Washington, 511 West 5th St., zip 63090. Bumper sticker and my reception report returned as verie signed by Ken Kuenzie, KA0PGO. He says before working at KSLO was at KJRL-AM 1460khz, old KSLQ-FM 98.1mhz, & KSLQ-AM 1350khz. (Bueneman)



MD WERQ 92.3 Baltimore, 100 St. Paul St., 4th Floor, zip 21202. Letter from Wendell S. Hall, Jr. Asst. CE, wrote after I send a tape, and he called saying "I am please to confirm your reception of station WERQ...one of the longest distance reception reports I have ever come across." (Elving)

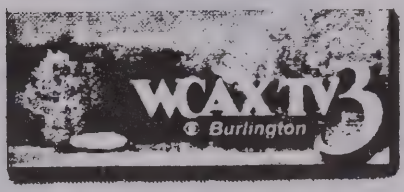
MN KNBJ Bemidji 91.3, P. O. Box 578, zip 56601. Letter from Marilyn Heltzer, Station Manager who states that she heard other dx the same time I was getting them, and accuses me of being their most distant listener. (Elving)

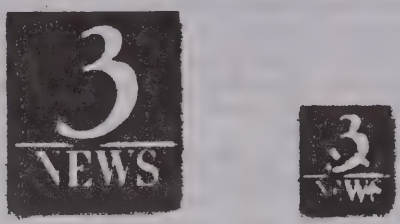
OH WDPG 89.9 Greenville, % 126 N. Main St., zip 45402. Short note with program schedule from Jenny Penny, Membership Coordinator. (Elving)



KS KJCK 94.5 Junction City, P. O. Box 789, zip 66441. Nice letter, says hobby is interesting, enclosed coverage-map from Nick Danjer, Program Director. (Coniglio)

TX KPAC 88.3 & KSTX 89.1 San Antonio, 8401 Datapoint Dr., Ste. 800, zip 78229. Letter from Joe Gwathmey, GM who says they are both 100kw diplexed into one antenna. (Elving)





AR KBBQ 100.7 Ft. Smith, 314 N. Greenwood, P. O. Box 303, 72902. Letter, sticker, coverage-map & St. Louis Cardinals sked & promo Margie Cole, Sales Manager. (Coniglio)

AR KUAR 89.1 Little Rock, 2801 S. University Ave., 7SH, zip 72204-1099. Letter, program guide & key chain from Ben Fry, News & Inf. Director. (Coniglio)

TX KWCB 89.7 Floresville, 1905 10th St., zip 78114. Letter, bumper stickers, key chain from Cissy Gonzalez, (no title given), who mentions the station is working on its stereo generator & hopes to be back on in stereo. They have a strict budget & is only on from 9am to 9pm. Also says "I cannot say how exciting receiving your letter has been, & yes this is the longest distance a listener has heard our programming. (Elving)

IA KGLI 95.5 Sioux City, Box 1737, zip 51102. Letter from Kevin Kollins, Program Director who mentions hearing 'ducting' the week before & logged KLUC 98.5 Las Vegas ! Also sent some nice promo items including beach ball & mug holder. (Coniglio)

IN WBRU 93.3 Kandallville, % 2100 Goshen Rd. Ste. 232, Ft. Wayne, IN 46808. Letter & coverage-map from Mike Reichard, CE. (Coniglio)

Reporters this time was: Eric Bueneman, NOUIH in Hazelwood, MO ; Greg Coniglio of Williamsville, NY& Bruce F. Elving in Esko, MN. Note: the logos I used came from the Internet. My computer had had big bad hard drive crash back in June, 1996 and I now using Windows 95 with deskjet ink printer, so I can do better graphics, 73's to later on. Send your qsl's news by e-mail now ! 73's

FM NEWS

MAY 1997

editor- GREG CONIGLIO
90 SLATE CREEK DRIVE - APT. 3
CHEEKTOWAGA, NEW YORK 14227
E-MAIL coniglio@localnet.com
TIP DEADLINE - The 10th

Many of the items listed in this column are taken from the publication:
M Street Journal - P.O. Box 1479 - Madison, TN 37116-1479
PHONE (615) 865-1525 FAX (615) 865-2598

KEY:

&: satellite programming
AF: new freq. allocation **accepted** for **filing** for a new FM license
AFA: American Family Association
CC: **call change**/new calls assigned
CL: **city** of **license** change granted
CO: new xmtr **co**-ordinates
CX: a **CP** has expired, and is cancelled
C1,C2, etc: change in class status
DA: **directional antenna**
DE: calls **deleted**, license returned to FCC
FC: station **format change**
GA: **granted amendment** to table of FM allocations
GE: station was **granted extension** of a CP
GX: **granted** replacement of expired CP
LC: filed for license to cover (for new stn.)
MC: **multiple-city** legal ID
NC: **no change** yet, on a reported pending grant/change.
ND: non-directional
NO: station is **not on** the air
NS: a **new station** granted a license
OSA: one-step application
NW: **new** station signs on the air
PA: **proposed amendment** to change table of allocations
PC>: a **power change** (increase)
PC<: a power change (decrease)
PG>: **power** change **granted** (increase)
PG<: **power** change **granted** (decrease)
QC: frequency **change** for this station
QG: frequency change **granted**
RA: station **returns** to the **air**
RE: station **requests extension** of a CP
RX: station **requests** re-instatement of an expired CP
SG: **slogan** change or update
SI: station is **silent**
XA: disimssed amendment to the table of FM allocations
XC: station changes xmtr site
XG: station granted a transmitter (xmtr) site change

UNITED STATES

ALABAMA:

Brewton: WGYJ 90.9 NO-RE
Eutaw: WQZZ104.3 CC (ex WWQZ), adds ABC urban AC (&) and Tom Joyner
Georgiana: WWGA107.7 NO-GX
Meridianville: WXQW 94.1 FC to dance CHR // WWXQ 92.5
Oneonta: WKLD 97.7 inc. to 341 feet.
Piedmont: *NS 88.3 AF
Trinity: WWXQ92.5 FC to dance AC (Huntsville)
Tuscaloosa: WRTR105.5 CC (ex WACT), FC to rock

ALASKA:

Anchorage: KSKA 91.1 NC to 100 kW, 617', RE
Fairbanks: KUAB 89.9 CC (NS)

ARIZONA:

Arizona City: KBZR106.5 CC (ex KONZ), FC to rock
Bisbee: KRMB 90.1 NO-RE
Douglas: KRMC 91.7 NO-GE
Flagstaff: KJTA 89.9 NO-RE
Nogales: KAUH 99.1 CC (NS)
Phoenix: KHTC 96.9 FC to classic hits
San Carlos: KCDX103.7 NO-GX
Wickenburg: KMYL105.3 CC (ex KRDS), FC to adult standards (&)

ARKANSAS:

Augusta: KABK 97.7 SG "K 97.7"
Bald Knob: KASY107.1 SG "Sunny 107"
Corning: KBKG 93.5 FC to gold based AC
DeWitt: KDEW 97.3 QC from 96.7, now C2, PC> 50 kW, QC: 34-25-52 / 91-26-08, RA, with a very strong signal (country)
Hoxie: KOCY105.3 FC to soft AC
Lake City: KDXY104.9 FC to country "Fox 104.9"
Lonoke: KMZX106.3 NC to 50 kW, 492ft, C2
XC: 34-36-06 / 91-51-40
Osceola: KOSE107.3 PG< 1.6 kW, 335 ft.
Sherwood: KLPQ102.1 FC to CHR, "Star 102.1"
Stamps: KZHE100.5 FC to classic country (&)
Van Buren: KLSZ 102.7 FC to classic rock "Rock 103"

Wyoming's Cowboy 106

CALIFORNIA:

Alturas: KALT 106.5 CC (NS)
Alturas: KCNO 94.5 FC to Branson country (&)
Calistoga: KGRP100.9 FCC (ex KRAZ), FC to classic hits (Santa Rosa)
Calpatria: KSSB100.9 NW, oldies (El Centro)
Carlsbad: KMCG 95.7 CC (ex KUPR), "Magic"
Copperopolis: KRVR 105.5 dec. to 781 ft.
Corcoran: KLCZ 102.3 NO-RE
Earlimart: KNAC 93.5 NO-GE
E.Porterville: KOJJ100.5 CX CP for 2.1 kW, 1109 ft.
Eureka: K274AM102.7 NS-250w, DA: KQEX 100.3
Ford City: KZPE102.1 NO-RE
Gonzales: KMBY104.3 PC< 2.6 kW, 508 ft. XC; 36-40-06 / 121-31-09
Grass Vly: KLVS 99.3 CC (ex KJFA)
Groveland: KXSR91.7 PG< 3.4 kW (v), 1643 ft XG: 38-03-49 / 120-14-47
Healdsburg: KHBG95.9 FC to classic rock
Huron: *** 98.3 GA for class A
Joshua Tree: KKJT92.1 reported SI
Lakeport: KXBX 98.3 adds Jones AC (&)
Lancaster: KTLW 88.9 NO-RE
Merced: KAMB101.5 PG< 1850w, 2093ft non-dir, XG: 37-32-01 / 120-01-46
Modesto: KEJC 93.9 NO-GE
Mt.Shasta: KMJC107.9 FC to adult standards
Newberry Sps: *NS103.7 AF

California:

Orange Cove: KMAK 100.3 FC to religion (Fresno) no longer c.Christian // KAMB 101.5
Palm Desert: KHCS91.7 NC to 960w, RE
Palm Springs: K268AH 101.5 NS-10w(v): KEAR 106.9
Petaluma: K221DQ92.1 NS-10w: KLVR 91.9 CA
Quincy: KHJQ 102.1 RA with adult cont. (&)
Quincy: KSPY 100.3 FC to news/talk/sports // KUKI 1400 Ukiah
Redding: *NS 88.9 AF (State of Oregon)
Redding: K268AJ101.5 NS-10w(v): KHAP 89.1
Riverdale: *** 98.3 XA to add class A
Salinas: KLXM 97.9 PG to 2.9 kW, 479 ft XG: 36-40-20 / 121-31-28, CC (NS)
San Francisco: KYCY93.3 NC to 45 kW, 418', GE
San Jacinto: KWRP96.1 adds WW1 standards (&)
San Joaquin: KVPC 105.5 PG< 1750w, 600 ft XG: 36-41-37 / 120-03-16
San Luis Obispo: KKJG 98.1 NC to 4.5 kW, 1519', GE
San Margarita: KWSP 106.1 FC to soft AC (&)
Santa Barbara: KLDZ 107.7 CC (NS)
Santa Maria: K286AH 105.1 NS-10w(v): KFRB 91.3
Shingle Sps: KSSJ101.9 PC> 50 kW, 505 ft, DA class B, XC: 38-51-12 / 120-56-23
Solvang: K252DH 98.3 NS-10w(v): KFRB 91.3
Tahoe City: KKTO 90.5 NO-GX
Twentynine Palms: K214CR 90.7 NS-10w: KCRW 89.9
Victorville: KVVQ103.1 reported SI
Willow Crk: K300AI107.9 NS-10w: KVIP 98.1
Woodland: K284AG104.7 NS-10w: KLVC 88.3 CA

COLORADO:

Aspen: KPVW107.1 NO-RE
Basalt: KNFO106.1 adds Imus (Aspen)
Brush: KSIR 107.1 FC to easy listening (with Spanish programming at night)
Cedaredge: K271AE102.1 NS-250w: KJYE 92.3 CO
Delores: *** 96.5 PA: add class C2s
Ft.Morgan: KBRU101.7 adds Spanish, 6 to 11 pm
Glenwood Sps: KZGO 92.7 NO-GE
Grand Junction: KAFM 88.1 NO-RE
Ignacio: *NS 90.1 3 kW(v), 1965', KUTE, Inc.
La Junta: KBLJ 92.1 FC to talk, WW1 country (&)
La Junta: *NS 106.5 100 kW, 981 ft.
Pagosa Sps: KRQS106.3 FC to WW1 oldies (&)
Silverton: *NS 107.3 100 kW, -817 ft.
Telluride: KRYD104.9 NO-GE

CONNECTICUT:

Old Saybrook: W233AJ 94.5 NS-38w: WGRS 91.5
Torrington: WAPJ 89.9 NW, variety

FLORIDA:

Avon Park: WWOJ106.3 OSA to 99.1 - C3, PG> 10 kW, 515', XG: 27-30-39 / 81-31-54
Bonita Sps: WRXK96.1 adds Howard Stern
Bradenton: W243AK96.5 NS-80w: WYFO 91.9
Carabelle: WCAF106.5 NO-RE
Clermont: WLAZ 88.7 NO-GE
Cocoa: W230AL93.9 NS-80w: WJFP 91.1
Dade City: WGUL 96.1 adds Jones standards (&)
Edgewater: WKTO 98.7 NO-GE
Graceville: WYDA101.7 FC to WW1 soft AC (&)
Homestead: WXDJ95.7 PC< 40 kW, 548 ft, DA class C2, XC: 25-46-29 / 80-11-19, CL: North Miami Beach, FL

WXCV 95.3 FM Citrus 95

Florida:

Homosassa Sps: WXCV 95.3 FC to hot AC
Jensen Bch: WMBX 102.3 CC (ex WHLG)
Key Largo: *NS 91.7
Key West: WCNK 98.7 RA with smooth jazz (&)
LaBelle: WKZY 92.5 PC> 6 kW, 161 ft. (station will eventually upgrade further to class C3) FC to easy listening // WCVU 104.9
Lakeland: WCIE 91.1 allowed to operate as a satellite station
Lehigh Acres: WCKT 107.1 PC> 28.5 kW, 649 ft.
Live Oak: WLVO106.1 NO-GE
Mangonia Pk: W296AW 107.1 NS-10w: WJFP 91.1
Monticello: WTAL105.7 RA with talk // WTAL-AM (Tallahassee), QC from 101.9, PC> 16 kW, 410' XC: 30-23-68(?) / 83-50-05, "W-Talk"
Naples: WSRX 89.5 PC> 20 kW, 226 ft, DA C3, XC: 26-07-33 / 81-43-37
Pennusco: WIRP 88.3 NO-TX
Perry: WNFK 92.1 FC to country "K-92" QC from 105.5, PC< 1.6 kW, 197 ft. XC: 30-06-27 / 83-34-00
Pt.Charlotte: WXRM100.1 CC (ex WFSN), FC to soft AC (Fort Myers) "Warm"
Sebring: W207AY89.3 NS-55w: WYFG 89.3 SC
Tallahassee: WAIB 103.1 PG< 37 kW, 564 ft.

GEORGIA:

Atlanta: W264AE100.7 on with WJSP 88.1
Atlanta: W300AB107.9 NOT on (WABE 90.1)
Brunswick: WSEG104.1 FC to urban AC (&)
Clarkesville: WMJE 102.9 FC to WW1 a/c (&)
Dublin: *NS 88.3 1 kW, 82 ft, AFA
Gordon: WALJ107.1 FC to urban AC (Macon)
Greensboro: WDDK103.9 adds WW1 a/c (&)
McRae: WYSC102.7 FC to Jones country (&)
Marietta: W222AF91.3 NS-10w: WCCV 91.7
Midway: WGCO 98.3 FC to oldies // WOCW 92.1 SC (Savannah)
Peachtree City: *NS91.7
Rome: *NS 91.3 1 kW, 745 ft, DA
Springfield: WSGF103.9 FC to urban "The New 103.9"
Swainsboro: WJAT98.1 FC to country
Warrenton: *NS 93.1 PG to 4.1 kW, 400 ft, XG: 33-29-59 / 82-37-09
Waycross: *NS 91.9 1 kW, 148 ft, AFA

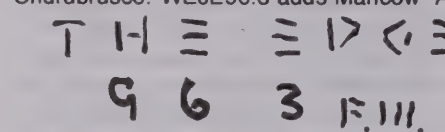
HAWAII:

Aiea: KGMZ107.9 FC to oldies, SG "1-Oldies-7.9" (Honolulu)
Hanalei: KKCR 90.9 NO-RE
Hilo: KCIF 90.3 CC (NS)
Kaneohe: KBLZ 104.3 NO-GE
Kekaka: KAUI 103.3 NO-RE
Kula: *** 96.7 XA to add class A
Poipu: KSRF 95.9 NO-RE
Princeville: *NS 99.9 AF
Princeville: *NS 98.9 AF
Waipahu: KDEO102.7 FC to urban AC (Honolulu)

IDAHO:
Gooding: KMXM100.9 NW,country"MaximumCntry"
Wallace: *NS 100.7 8.2 kW, 2171 ft.
Wallace: *NS 97.5 50 kW, -922 ft.

ILLINOIS:
Alton: KATZ 100.3 FC to urban AC
SG "100.3 Kiss FM" (St.Louis)
Bartonville: WIXO 99.9 PC> 1.5 kW, 584 ft.
Danville: WIAI 99.1 SG "I-99"
DuQuoin: WDQN 95.9 PC> 6 kW
Farmer City: WWHP98.3FC to country "The Whip"
Fisher: WGNN102.5 NW, religion
Galesburg: WAAG 94.9 inc. to 492 ft.
Mahmonet: WGKC105.9 FC to classic rock
Maroa: WDKR107.3 NW, rock or classic rock
Mattoon: WLBH 96.9 FC to hot AC
Metropolis: WRIK 98.3 may be SI
Murphysboro: WTAO 105.1 FC to rock (Carbondale)
Neoga: WWGO98.9 NW, hot AC, "Go 99"
Paris: WACF 98.5 SG "America's Country Favorites" (Terre Haute)
Paxton: WPXN104.9 FC to adult cont.
Peoria: WPBG 93.3 FC to oldies "Big Oldies" CC (ex WMXP)
Quincy: WQUB 90.3 NC to 28 kW, GE
Rantoul: WQQB 96.1 FC to CHR/dance, "Q96"
Teutopolis: WKJT102.3 CC (ex WAES), SI, but should be back on by now
Virginia: WVIL 101.3 PC< 4 kW, 390 ft,
XC: 40-00-52 / 90-19-55

INDIANA:
Anderson: WBSB 89.5 NW, info/classical // WBST
Auburn: WGGL102.3 remains news/talk, // WGL-AM Ft.Wayne (see WGL-FM change)
Bloomfield: WBHQ101.1 NO-CX-DE
Chandler: WJPS 93.5 PC< 2250w, 531ft, DA
Chesterton: WAJW 89.5 NO-GE
Churubrusco: WEJE96.3 adds Mancow AM drive



Crawfordsville: WAQN 91.3 NW, alternative
Evansville: WABX107.5 NW, classic rock adds "John Boy & Billy"
Hardinsburg: *** 96.9 PA to add class A
Madison: WORX 96.7 PC< 1050w, 551 ft
XC: 38-44-32 / 85-21-43
Madison: *** 101.1 XA to add class A
Marengo: WARL 89.9 CC (NS)
New Carlisle: WGTC102.3 FC to cont. Christian // WHPZ 96.9 (South Bend)
Roanoke: WVSR 94.1 FC to modern AC
CC (ex WGL-FM) (Ft.Wayne)

IOWA:
Bloomfield: KXOF106.3 PC> 8.7 kW, 377 ft, C3
XC: 40-46-39 / 92-23-54
Davenport: KCQQ106.5 NC to 100 kW, 981 ft, GE
Estherville: KILR 95.9 NC to 10 kW, 325', RE
Hudson: KZME 96.1 PG> 6 kW, 328 ft, DA
Independence: KQMG 95.3 FC to hot AC (&)
Keokuk: KOKX 95.3 NC to 100 kW, 981', GE

Iowa:
Lake City: KIKD 106.7 NW, CD Country (&)
Madrid: *NS 96.1 PG to 2.5 kW, 515 ft, DA
Maquoketa: KMAQ 95.3 NC to 95.1, 6 kW, RE
Sioux City: KTFC 103.3 PG> 100 kW (cir), 669 ft
XG: 42-29-26 / 96-18-21
Spirit Lake: W252AU 98.3NS-185: KJLY 104.5 MN
Waverly: KWAY 99.3 FC to a/c (from soft a/c)

KANSAS:
Bellaire: K219DD91.7 NS-10w(v): WHCB 91.5 TN
Herrington: KDMM105.7 NO-RE
Kingman: KCVW 94.3 NO-GE
Manhattan: K204CT88.7 NS-115w: WYFG 89.3 SC

KENTUCKY:
Beaver Dam: *NS100.7 NO-RX
Carlisle: WCAK100.7 FC, now noted // WKYI 99.1 with Christian country
Elkhorn City: WPKE 103.1 NC to 320w, 1397ft, RE
Glasgow: WGBV 94.1 NW, country, // WBVR-FM
Hartford: WKHB106.3 adds CD Country (&)
Lawrenceville: WKYL 102.1 FC to smooth jazz
Lebanon: WLSK100.9 PC> 15 kW, 295 ft, C3
Lexington: WKQQ 98.1 noted with Bob and Tom
Midway: WAHY107.9 NO-CX (station must come on the air by July 17, 1997)
Murray: WBLN 94.7 CC (ex WXID), FC to adult cont. (&) (Paducah)
Murray: WFGE103.7 CC (ex WBLN), FC to country "Froggy 103" (Paducah)
Paducah: WDDJ 96.9 FC to CHR, "Electric 96.9"
Radcliff: WASE103.5 PG< 7 kW, 541', non-dir
XG: 37-48-57 / 85-46-49
Reidsville: WZZL106.7 FC to CHR/dance "Hot Mix 106" (Paducah)
Richmond: WLRO101.5 PC> 9 kW, 541 ft.
Wickliffe: WGKY 95.9 FC to classic country (&)

LOUISIANA:
Alexandria: KOUZ 89.9 NO-GE
Alexandria: *** 106.9 GA to add class A
Atlanta: *** 106.5 PA: add class A
Amite: WTGG 96.5 NW, oldies (&)
Ball: *** 105.5 GA for class A
Baton Rouge: WBRH90.3 NC to 8 kW, 371 ft, RE
Baton Rouge: WJFM88.5PC> 30 kW (cir), class C2
Berwick: KBZE 105.9 adds Doug Banks
DeRidder: KEAZ 101.7 reported SI
Erath: KPEL 107.7 NC to 107.9, 100 kW, GE
Kaplan: KMDL 97.3 PG< 38 kW, 561 ft
XG: 30-02-54 / 91-59-49
Lafayette: KRRQ 95.5 adds Guy Brody 5-9 am
Leesville: KJAE 92.7 adds Real Country (&)
Mamou: KBON101.1 NO-GX
Maurice: KFXZ 106.3 FC to gospel & blues
Minden: KASO 95.7 QC from 95.3
Slidell: WLTS105.3 PA: to class C1,
CL: Kenner,LA
Tioga: KLAA 103.5 FC to country "LA 103"
Washington: KNEK104.7 FC to urban AC (Lafayette)
White Castle: *** 106.9 PA: add class A

MAINE:
Bangor: W275AE102.9 NS-50w: WERU 88.9

MARYLAND:

Cambridge: WFBR 94.3 NO-CX (station must come on by July 9, 1997), GA: to class A, CL: St.Michaels, MD

MASSACHUSETTS:

Boston: WBMX 98.5 PG> 16.5 kW, 850 ft, XG: 42-18-12 / 71-13-08
Nantucket Is: WNAN91.1 CC (NS)
Truro: WCDJ102.3 NO-GE

MICHIGAN:

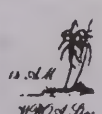
Detroit: WOMC104.3 XG: 42-28-10 / 83-06-54
Escanaba: WYKX104.7 NC to 984', XC, GE
Flint: WGRI 88.9 NO-GE, PG to 150w(v) 361 ft, DA, XG: 42-56-26 / 83-37-47
Glen Arbor: WJZJ 95.5 CC (ex WTHM), NW smooth jazz (&)
Holland: WKLQ 94.5 FC to modern rock
Hubbardston: *** 103.7 PA to add class A
Jackson: WJXQ106.1 adds Bob & Tom
Jackson: WXIK 94.1 CC (ex WBHR), "Kicks 94"
Manistique: *** 99.9 PA to add class A
Marlette: WGBV 92.5 NO-RE
Mio: WAVC 93.9 RA with alternative rock (&)
Negaunee: *NS 99.5 AF
Negaunee: *NS 101.9 AF

MINNESOTA:

Cambridge: WREV105.3 FC to rock "X105" // KREV
Eden Prairie: KCFE105.7 FC to rock "X105" // KREV
Ely: WELY 92.1 FC to hot AC "Kiss 92.1"
Glencoe: K202CH88.3 NS-220w: WNCB 89.3
Grand Marais: WXXZ95.3 NO-RE
Lake Crystal: *** 94.1 PA to add class A
Lakeville: KREV105.1 FC to rock "X105" (Mnpls)
Mahnomen: *** 101.5 PA: add class C3
Medelia: *** 94.1 PA to add class A
Proctor: KUSZ107.7 PC> 77 kW, class C2
Rochester: *NS 88.7 AF
St.Charles: KLCX 107.7 CC (ex KANP)
Two Harbors: KZIO104.3 CC (ex WRSR)
Vernon Ctr: *** 94.1 PA to add class A

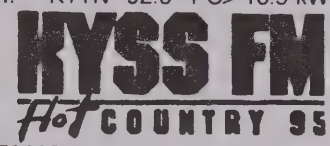
MISSISSIPPI:

Ackerman: W245AE96.9 NS-55w(v): WQST 92.5
Bruce: WCMR 94.5 adds Branson cntry (&)
Centreville: WZFL104.9 SI
Clarksdale: WKDJ 96.5 CX CP for 180ft, XC
Crenshaw: WKHL106.9 PG to 6 kW, 328 ft XG: 34-26-51 / 90-06-25
Durant: WLIN 101.1 CC (ex WKOZ)
Gulfport: WXYK107.1 CC (ex WXLS)
McLain: WXAB 96.9 NO-RE
Mound Bayou: WZYQ 102.1 NO-RE
Natchez: WASM 91.1 CC (NS)
Pascagoula: WXRG 105.9 CC (ex WXYK)
Poplarville: WZKX107.9 CL: Bay St. Louis, MS
Potts Camp: WCNA95.9 PA: class C3, CL: Saltillo,MS
Pt.Gibson: *NS 89.3 AF (AFA)
Saucier: WAOY 91.7 NW, AFA Cont.Christian (&)



MISSOURI:

Ash Grove: KQMO104.1 FC to a/c, "Star 104"
Branson: KRZK106.3 PC> 27 kW, 659 ft.
Cassville: KRLK 100.1 FC to WW1 Hot Country (&)
Concordia: *NS 88.1 AF
Cuba: KGNN 90.3 NW, religion // KGNV 89.9
DeSoto: KDJR 100.1 adds Americana, 5am - 7pm
Mansfield: KTRI 95.9 FC to southern gospel (&)
N.Bloomfield: *NS 90.3 150w, 216 ft.
Pt.Lookout: KCOZ 91.7 XG: 36-36-39 / 93-14-23 increase to 187 ft.
Poplar Buff: KZMA 103.5 NW? Probably the one I heard in W. Tenn. with "KZ 103" - grc
Poplar Bluff: KAHR96.7 FC to ABC a/c (&)
Rolla: KDAA 97.5 SG "K-Day"
Sikeston: KBXB 97.9 FC to country, "B98"
Sparta: KLTQ 96.5 FC to country "Max 96"
Steelville: KNSX 93.3 RA with adult alt. "93X"
Trenton: KTTN 92.3 PC> 18.5 kW



MONTANA:

Belgrade: *** 99.1 PA to add class A
Columbia Falls: KCWX 95.9 NO-RE
Cut Bank: *NS 102.7 100 kW, 551 ft.
Missuola: KYSS 94.9 PC> 62 kW, 2457 ft.
Ronan: K231AF94.1 NS-50w(h): KQRK 92.3

NEBRASKA:

Falls City: *NS 101.3 6 kW, 328 ft. (KNZA, Inc.)
Gering: KOLT 103.9 PA: to 95.7 - C3
Hastings: KFKX 90.1 LC
Lincoln: KNET 95.1 FC to hot AC "T-95"
Sargent: KNJP 92.1 NO-GE
S.Sioux City: KSFT107.1 NW, soft AC (&)
Wayne: KTCH104.9 OSA for C3, 25 kW, 302 ft.

NEVADA:

Battle Mtn: *** 98.5 GA: add class A
Gardnerville: KGVM 99.3 NC to 99., 6.9 kW, RX
Sparks: KLCA 100.9 CC (ex KQNV), FC to modern AC "Alice 100.9" (Reno)
Sun Valley: K201DR88.1 NS-34w(v): KAWZ 88.9 ID

NEW HAMPSHIRE:

Claremont: W298AH 107.5 Ns-1w: WZSH (DA)
Concord: W282AF104.3 NS-3w: WBCI 105.9 Bath,ME
Lebanon: WXXK100.5 CC (ex WVRR), FC to country (Claremont)
Moltonborough: WSCY 106.9 PC< 130w, 2906 ft.
Newport: WVRR101.7 CC (ex WXXK), FC to adult rock (&) (Claremont)

NEW JERSEY:

Atlantic City: WZZP 107.3 CC (NS)
Bridgeton: WNJB 89.3 LC, PG> 2.5 kW (v), 220 ft.

NEW MEXICO:

Albuquerque: KRZN101.3 FC to standards // KIVA
Farmington: K265DO 100.9 NS-250w(v): KKFG 104.5
Grants: KAIU 92.7 FC to WW1 70's oldies (&)
Jal: KXJW107.1 CC (NS)
Las Cruces: *NS 88.9 500w, 197 ft.
Lordsburg: KQTN 97.7 FC to Branson country (&)
Santa Fe: KZRQ105.1 FC to smooth jazz

NEW YORK:

Albion: *** 95.5 GA to add class A
Buffalo: WSJZ 92.9 FC to modern AC "Alice @ 92.9"
Cape Vincent: WBDR 102.7 CC (ex WKGG), RA with CHR (Watertown)
Center Moriches: WLVG 96.1 LC
Geneva: WEOS 89.7 PC> 4 kW, 312 ft, DA XC: 42-48-34 / 77-05-12
Glens Falls: WARD 90.9 CC (NS)
L.Ronkonkoma: WSHR 91.9 PG> 6 kW, 177 ft XG: 40-50-10 / 73-05-59
Monticello: WSUL 98.3 PG> 2.2 kW, DA
Norwich: WBKT 95.3 CC (NS)
Old Forge: *NS 99.7 NO-RE
Poughkeepsie: WTND 96.1 CC (ex WNSX) "Thunder Country"
Rochester: W300AM 107.3 NS-10w: WRCD 107.3
Sag Harbor: W233AI 94.5 NS-38w: WGRS 91.5
Sag Harbor: W264AJ 100.7 on air (WMNR 88.1 CT)
Southampton: WRLI91.3 NO-GE
Syracuse: WLTI 105.9 PG> 4 kW

NORTH CAROLINA:

Asheville: W249AR 97.7 on with WSPA 98.9 SC
Boone: W225AA92.9 on with WFAE 90.7 Charlotte
Charlotte: WLNK107.9 FC to modern AC "The Link" CC (ex WWSN)
Dunn: WRCQ103.5 adds Howard Stern
Forest City: WTPT 93.3 CC (ex WFNQ), SG "The Planet"
Grifton: WXNR 99.5 SG "The X" (modern rock)
High Point: WHSL100.3 SG "Whistle Country"
Kill Devil Hills: WCXL 104.1 inc. to 981 ft XC: 36-07-42 / 75-49-39
Laurinburg: WFLB 96.5 CC (ex WAZZ)
Nashville: WZAX 99.7 LC
St.Pauls: WLRD107.7 OSA to C3, 10 kW, 512 ft XG: 34-46-23 / 79-12-15
Salisbury: WOGR 93.3 QC from 91.1 PC 10 w. (cir), XC: 35-40-03 / 80-28-13
Southern Pines: WKQB 106.9 adds John Boy & Billy
Thomasville: WIST98.3 CC (ex WFAZ), FC to adult standards (&) (Greensboro)
Washington: WDLX93.3 SG "Arrow 93.3"
Winston-Salem: WXRI 91.3 NO-GE

NORTH DAKOTA:

Bismarck: KACL 98.7 NW, oldies "Cool 98.7"
Devils Lake: KQZZ96.7 PG< 38 kW, 561 ft XG: 47-58-49 / 99-03-11
Harvey: K216DI 91.1 NS-50w: WAFR 88.3 MS
Walhalla: *NS 106.7 NO-GX

OHIO:

Beavercreek: WXEG 103.9 PG> 2.6 kW, 502 ft, DA
Columbus: WUFM 88.7 PG> 5 kW, class B, DA
Delaware: WCEZ107.9 FC to soft AC (Columbus)
Hannibal: W234AJ94.7 NS-4w(v): WRRR 93.9 WV
Jefferson: WCVJ 90.9 NC to 1850w, 643 ft, RE
Johnstown: WTJY103.1 FC to urban (Columbus)
S.Webster: WZIO 94.9 FC to 70's "The Comet" (&)
Swanton: WJUC107.3 LC
West Union: WRAC103.1 drops A/C from format (now just country, s. Gospel)
Zanesville: W233AK 94.5 NS-16w: WCVZ 92.7

TWISTER Radio 101.9 Country

OKLAHOMA:

Broken Bow: KCGX90.9 NO-GE
Claremore: KTFR 100.7 GA: to class A, CL: Chelsea
Lahoma: KMKZ 95.7 SG "Mix 96", soft AC
McAlester: KTMC105.1 FC to WW1 Adult Rock (&)
Oklahoma City: KYIS 98.9 FC to modern AC, but still "98-9 Kiss FM"
Pauls Valley: *** 106.1 PA to add class A
Poteau: KZBB 97.9 SG "Zebra:"
Sallisaw: KKUZ 95.9 FC to CHR, "Mix 96"
Woodward: *NS 95.9 6 kW, 328 ft.

OREGON:

Depoe Bay: KDEP105.5 OSA for C3, 3 kW, 954'
Grants Pass: KAPK91.1 inc. to 72 feet
Lakeview: KLCR 95.3 CC (NS)
Milton-Freewater: KLKY 97.9 FC to CHR "Power 97.9"
Myrtle Creek: K255AJ 98.9 NS-10w: KZEL 96.1
Myrtle Pt: KTBR 94.1 CC (ex KAHY), "Talk Back Radio"
Nyssa: KGZH 98.7 NW, been noted recently // KJOY 101.9 (Regional Mexican)
Portland: KUFO101.1 dec. to 1443 ft.
Sisters: KPXA104.1 NO-GX
Sutherlin: *NS 101.1 NO-RE

PENNSYLVANIA:

Braddock: WRRK 96.9 SG "Channel 97" (Pittsburgh)
Bristol: WAJH 91.7 NO-GE
Harrisburg: WWKL 99.3 PG< 1350w, 679 ft XG: 40-11-30 / 76-52-05
Jersey Shore: WJSA 96.3 QC from 93.5, PC> 4.4 kW 777 ft, XC: 41-13-28 / 77-22-48
Johnsonburg: WJNG100.5 CC (NS)
Johnstown: *NS 89.7 3.3 kW, 1036 ft, DA
McConnelsburg: WEEO 103.7 CC (ex WIYQ)
Mansfield: WNTE 89.5 NC to 3.5 kW, -157 ft, RX
N.Kensington: WZPT 100.7 FC, is adding 80's material to their 70's format (Pittsburgh)
Philadelphia: WXPN88.5 NC to 8.9 kW, class B, GE
Spangler: WPCL 97.3 RA with religion // WAIJ 90.3
St.Mary's: WKVE 97.5 FC to CHR "The Peak"
Washington: WJPA95.3 adds WW1 oldies (&)
York: WVYC 88.1 QG to 99.7

RHODE ISLAND:

Narragansett Pier: WPJB 102.7 FC to dance CHR // WWKX 106.3 (Providence)

SOUTH CAROLINA:

Aiken: WRXR 96.3 SG "96X" (modern rock)
Atlantic Bch: WSEA100.3 LC
Bamberg: WWBD92.1 NC to 95.7, 6 kW, RE
Beaufort: WAGP 88.7 XG: 32-24-05 / 80-44-21
Bowman: WACJ 94.5 NO-GX
Conway: W241AE96.1 NS-19w: WJXY 93.9
Kingstree: KGSS 94.1 NO-RE
Marion: WKSY100.5 SG "The Buzz" (modern)
Newberry: WDXZ106.3 FC to southern gospel
Ridgeland: WGZR104.9 CC (ex WSHG), FC to country

SOUTH DAKOTA:

Hot Springs: KZMX96.7 NC to 51 kW (h), 551', GE
Mitchell: K258AG 99.5 NS-250w(v): KVCX 101.5
Pierre: K276EA103.1 NS-195w: KVCX 101.5
Winner: KGGK 98.5 NO-RE

TENNESSEE:

Colonial Heights: WRZK 105.9 CC (ex WLJQ) SG "Rock 105.9" (Tri-Cities), NW with rock
Crossville: WMKW89.3 NW, Moody religion // WMBW
Dyer: WLSQ 94.3 FC, now adult rock // WLSZ 105.3, SG sounded like "Vision 94.3" but not sure
El Paso: K212EO 90.3 NS-5w: KAWZ 88.9 ID
Elizabethtown: *NS90.5 AF
Johnson City: W222AG 92.3 NS-6w: WXIS 103.9
Knoxville: W252AQ98.3 w/WJXB 97.5, not WLIQ 92.7
Loudon: WNOX 99.1 FC to talk/sports // WIVK 990 SG" Newstalk 99" (Knoxville)
Maynardville: WASJ88.3 CC (NS)
Morristown: WMXK95.9 NC to 920, 817 ft, RE
Mt.Juliet: WNPL106.7 NO-RE, PA: to class A CL: Belle Meade, TN
Newport: *NS 90.7 AF
Ripley: WTRB 94.9 SG "Bright" or "Light" 95
Spencer: W211AS90.1 NS-10w: WAFR 88.3 MS
Springfield: WDBL94.3 FC, may begin simulcasting WRLG 93.7 and WRLT 94.1 soon (Nashville)
Tazewell: WCTU 94.1 adds Branson country (&)
Tullahoma: *NS 88.5 AF (AFA)
Union City: WWUC105.7 SG "Mix 106 UCFM"
Woodbury: WBOZ104.9 PC> 6 kW

TEXAS:

Amarillo: KBZD 99.7 CC (ex KLLR), FC to adult alternative
Amarillo: KPQZ100.9 NW, regional Mexican (&)
Austin: KKMJ 95.5 PG> 100 kW (cir), 1135', DA
Beaumont: KXTJ 107.9 FC to Tejano // KQQK 106.5 a new format is expected soon
Benavides: KXTM107.7 NO-TX
Breckenridge: KLXK93.5 CC (ex KROO) "K-Lakes"
Brenham: KULF 94.1 PG> 25 kW, C3
Brownsville: KBNR88.3 PG> 5.5 kW
College Stn: KTSR92.1 NC to 107.3, 50 kW, GE
Corsicana: KICI 107.9 PA: to class A, CL: Robinson
Crystal Beach: KSTB 101.5 PC< 14 kW, 449 ft.
Dallas: KRRW 97.9 FC to soft AC "B 97.9"
Devine: KTXX 92.1 adds ABC country (&)
Ft.Worth: KEGL 97.1 inc. to 1673 feet XC: 32-35-05 / 96-57-46
Gainesville: KECS107.9 PA: to class C1, CL: Lewisville
Giddings: KANJ 91.5 NO-GE
Greenville: KIKT 93.5 PC> 9.1 kW
Hearne: KHRN 94.3 NC to 103.1, 6 kW, GX
Hondo: KRBH 98.5 NO-RE
Houston: KQUE102.9 FC to modern AC "The Planet"
Houston: KIKK 95.7 SG "Young Country 95.7"
Huntsville: K218CG91.5 NS-205w: WYFG 89.3 SC
Ingleside: KAHX107.3 PC> 25 kW, C3 XC: 27-52-02 / 97-13-07
Jacksboro: KJKB 98.3 PA: to 95.3 - A
Kerrville: *NS 88.7 AF
Kilgore: KTPB 88.7 NC to 79 kW (v), GE
L.Jackson: KTBZ 107.5 FC, is dropping harder edged new rock (Houston)

Texas:

Laredo: KZTQ 106.1 XC: 27-31-14 / 99-31-19 dec. to 174 ft.
Lubbock: KCRM 99.5 FC to classic rock, CC (ex KRLB)
Lufkin: *NS 88.1 A
Luling: KAMX 94.7 XG: 30-19-23 / 97-47-58 inc. to 1302 ft.
McAllen: K248AM97.5 NS-195w(h): KEPI 88.7
Markham: *NS 92.5 AF
Mart: *NS 88.9 AF (AFA)
Memphis: KLSR 105.3 FC? Noted KMML 96.9 on this freq. from Oklahoma City - grc
Mercedes: KTJN 106.3 PC> 1550w, 649 ft.
Mineral Wells: KYXS95.9 PA: to class C3
Monahans: KCDQ102.1 adds ABC classic rock (&)
N.Boston: KZRB 103.5 PC> 50 kW, 492 ft, C2
Odem: KLHB 98.3 PC> 50 kW, 433 ft, C2 XC: 27-47-26 / 97-27-02
Olney: KRZB 97.5 CC (NS)
Pittsburg: KXAL 103.1 FC to WW1 adult rock (&)
Plainview: KKYN103.9 XG: 34-15-43 / 101-40-30 (at 367 ft.), adds ABC country (&)
Pt.Comfort: KAJI 94.1 NO-GE
Premont: KMFM104.9 GA: to 100.7 - C3
Raymondville: KBIC106.9 NO-TX
Rockdale: KRXT 98.5 adds WW1 country (&)
San Marcos: K201DQ 88.1 NS-67w(v): KHCB 105.7
San Saba: KBAL 97.1 FC to classic country (&)
Sanger: KXIL 104.1 FC with soft AC
Seabrook: KRTS 92.1 NC to 100 kW, 981', RE
Uvalde: KUVA102.3 PC> 4 kW, 216 ft, XC: 29-11-16 / 99-46-36
Wellington: *** 101.3 PA: add class C3
Weslaco: K206BP89.1 NS-197w(h): KEPI 88.7
Zapata: *** 93.5 GA: add class A

UTAH:

Levan: *** 101.5 PA: change to 99.1 - A
Moab: K281AJ104.1 NS-10w(v): KRPQ
Moab: KCYN 97.1 NO-GE
Oakley: *** 101.5 PA: add class C1
Ogden: K223AK 92.5 NS-250w: KUSU 91.5
Roosevelt: *NS 94.3 2.4 kW, 1886 ft.

VERMONT:

Bennington: W253AF98.5 NS-42w: WNGX 91.7 NY
Burlington: WVPS107.9 NC to 59 kW, 2644 ft., GE
Marlboro: WSSH101.5 NC to 2.6 kW, 344', RE
Montpelier: WNCS104.7 PC to 1.9 kW (cir), 2080 ft DA
Norwich: *NS 91.7 AF (NH/VT Public Radio)
Warren: WDEV 96.1 PG> 96 watts
Woodstock: *NS 91.7 AF

WDOT AM FM I ♥ OLDIES

VIRGINIA:

Appomattox: WTTX107.1 PG< 1.7 kW, 426 ft.
Blacksburg: W244AV96.7 on with WROV 96.3
Bowling Green: WLMN 96.9 NO-GE
Charlottesville: WNRN91.9 NW, modern rock
Charlottesville: WUVA 92.7 FC to urban AC "Kiss FM"
Charlottesville: WWWV 97.5 PC< 8.9 kW, 1132 ft
XC: 37-59-05 / 78-28-49
Christiansburg: WBNK 100.7 NC to 1.6 kW, 453', GE
Culpeper: WPER 89.9 NO-RE
Elkton: WACL 98.5 FC to oldies "Cool 98.5"
CC (ex WPKZ)
Garden City: W240AA 95.9 on with WPVR 94.9
Garden City: W224AA 92.7 on with WXLK 92.3
Goochland: *** 100.5 GA: add class A
Lynchburg: WJJX 101.7 SG "102 Jams FM"
Manteo: WVOD 99.1 SG "The Sound"
Roanoke: WRDJ104.9 SG "Oldies 104.9 & 102.7"
Roanoke: W209AG89.7 on with WVTF 89.1
Saltville: WASQ106.1 NO-GE, CC (NS)
Shawsville: *** 102.5 PA: add class A
Williamsburg: WKLR96.5 CC (ex WLEE),
"Classic Hits 96.5" (Richmond)

WASHINGTON:

Ephrata: KTAC 93.9 NO-RE
Kennewick: KBLD 91.7 NO-GX
Mabton: KLES 98.7 CC (NS)
Moses Lake: KMLW88.3 NW, religion // KMBI 107.9
Pasco: KGSG 93.7 CC (NS)
Raymond: KSWW 97.7 FC to ABC a/c (&)
PC> 3.1 kW, 920 ft.
Seattle: KIRO 100.7 PC< 58 kW, 2342 ft, DA
XC: 47-30-14 / 121-58-29
Seattle: KWJZ 98.9 PC< 58 kW, 2342 ft, DA
XC: 47-30-14 / 121-58-29
Spokane: KNJY 102.9 NC to 7.7 kW, 1214 ft, C2
XC: 47-43-33 / 117-10-06
Walla Walla: KNUJ99.1 FC to Jones classic cntry (&)
Westport: *** 100.9 PA to add class A

WEST VIRGINIA:

Grafton: WTBZ 95.9 adds Branson country (&)
Hinton: WMTD102.3 FC to classic rock
Milton: WAMX106.3 PG> 1650w, 1109 ft, B1
Princeton: WKOY100.9 CC (ex WKMY)
Summersville: WCWV 92.9 adds WW1 a/c (&)

WISCONSIN:

Antigo: WACD106.1 CC (NS)
Balsam Lake: WWLC104.9 NW, country
Chippewa Falls: WCFW 105.7 QC from 105.5, PC>
25 kW, 305 ft, class C3
Durand: WRDN 95.9 PC> 1.3 kW
Green Bay: WHID 88.1 NO-GE
Hayward: WHSM101.1 FC to a/c, "Magic 101"
Kaukana: WKFX104.9 NC to 3.1 kW, 462', RE
LaCrosse: WLSU 88.9 adds NPR news, classical
Madison: W215AQ90.9 NS-10w: WHHI 91.3
Mukwonago: *** 105.3 PA: add class A
Tomah: WUSK 96.1 CC (ex WBOG), "US 96.1"
Tomah: WBOG 94.5 CC (ex WUSK)

97 FM
24 KMTN Jackson Hole

WYOMING:

Afton: *NS 91.3 AF (U of Wyo.)
Casper: KYOD104.7 NW, country "Coyote" (&)
Centennial: *** 92.7 PA: add class A
Cheyenne: KRRR 99.9 NW, "K-Triple-R", oldies
Cheyenne: *** 103.9 PA: add class C2
Ethete: KWRR 89.5 NO-RX
Green River: *** 101.5 PA: change to 92.1 - C
Sheridan: *NS 91.3 450w, 1161 ft, U of Wyo.

U.S. TERRITORIES:

MARITIME PROVINCES:

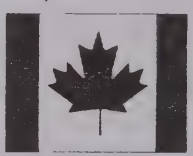
Garapan: KPXH100.3 PG> 5.8 kW
XG: 15-12-28 / 145-42-52

PUERTO RICO:

Culebra: WXZX106.5 NO-GX
Mayaguez: WRUO 88.3 CC (NS)

VIRGIN ISLANDS:

Charlotte Amalie: WVGN 105.3 PC> 15 kW, 1584 ft
Christiansted: WAVI 93.5 PC< 9.6 kW 807 ft.
St.Thomas: WIUJ 102.9 PC> 1.5 kW, 1427 ft, class
A, XC: 18-21-26 / 64-56-50



CANADA

ALBERTA:

Banff: *NS 106.5 200w, to be // to new
CFHC 106.5 if granted
Canmore: CFHC 1450 wants 106.5, 200 watts
Edmonton: CKUA 94.9 reported SI (along with
entire CKUA network, see reports below)
Elk Island NP: *NS93.3 English TIS, 50 watts
Elk Island NP: *NS98.9 French TIS, 50 watts
Rocky Mtn House: *NS 94.5 720w, // CIBW-FM
but 15 hours local programming

NEW BRUNSWICK:

Dalhousie: CIMS-?96.7 app for 8 w xltr
St.John: CHSJ 700 QG to 94.1 - 50.4 kW

BRITISH COLUMBIA:

Chetwynd: CHET 94.5 NW, adult cont.
Nakusp: CKKC197.7 QG to 103.1
Nakusp: CICF1103.1 NO-CX-DE

ONTARIO:

Burlington: CING 107.9 PG< 26.1 kW
Ottawa: CHRI 99.1 NW, cont. Christian

QUÉBEC:

Granby: *NS 104.9 200 watts (French)
Joliette: CJLM 103.5 wants 6 kW
Sacre-Cœur: *NS 99.7 24.4w, // CHME 94.9
Tadoussac: *NS 99.7 8.9w, // CHME 94.9
Trois-Pistoles: *NS 93.9 229w, // CJFP 103.7
for 116 hrs/wk, + 10 hrs/wk of local programs

SASKATCHEWAN:

Stockholm: CH?? 104.1 wants 10 watt station
// CILQ 107.1 Toronto, ON

Q107

CAYMAN ISLANDS

Cayman Brac:	93.9	250w: Radio Cayman
Grand Cayman:	105.3	5 kW: Radio Cayman
Grand Cayman:	89.9	3 kW: Radio Cayman
Grand Cayman:	99.9	5 kW: "Z-99" (private)
Grand Cayman:	101.1	500w: "I.C.C. 1" (private)
Little Cayman:	91.9	250w: Radio Cayman

The Radio Cayman stations often simulcast, but each occasionally has its own programming. There did not seem to be any TV or FM towers on the island over 150 to 200 ft.

• Doug Smith sends in a humorous item from the Associated Press wire service, about an April Fool's joke gone wrong in Alabama. WFFX 95.7, in Tuscaloose ("Jamz FM") promised to drop $50 and $100 bills from a helicopter at a set location. Problem is: too many people (estimated at two to three thousand) showed with with bags, nets, and children for extra fans, causing major congestion, and a huge traffic jam on Interstate 65. A helicopter that did appear turned out to be from a competing station! When WFFX's van finally showed up, angry listeners expressed their displeasure by putting some dents and dings in the van, though apparently no one was hurt. Many of the fooled said they planned on switching to a different radio station, and police were not amused, either. I read another April Fool's item in the *Buffalo News* on April 2, about a stunt pulled off in Syracuse by WNTQ 93.1. "93Q" announced that U.S. currency was going to be "changed", and after April 1st, all current bills would no longer be legal tender. Quite a few people actually fell for this, and showed up at various area banks wanting to trade in for the "new money" (!)

• Doug also has more information on the "March for Jesus" temporary stations that have been appearing in Canada in recent years. Applications have been filed for the following dates: May 31, 1997, May 30, 1998, May 22, 1999, and June 10, 2000. The locations involved are: St.John's, NF, Montreal, PQ, Gananoque, ON, Delta, BC, Lepreau, NB, Ottawa, ON, Moncton, NB, and Edmonton, AB. But, as Doug points out, there is no guarantee that the transmitters will actually be in these locations

• Thanks to Tom Bryant for providing the very interesting Cayman Islands information listed above!

• Michael Condon sends some information about some problems occurring trying to sign on a new station in Madison, Wisc. The University of Wisconsin has been trying to put on a radio station for quite some time now. Apparently the station already has a "name", WLHA 91.5 (I have not seen any information on this), a studio on State St., and even money, but needs a tower location. To avoid co- and adjacent-channel interference, the station must be located in southwestern Dane County. The only place possible is the Township of Montrose, a farmland community. But many in this area are opposed to a large tower there. Resident Jerry Brucaya says: "It's right in the middle of Montrose Twp and we're trying to keep a rural nature and look to this and you could see it from everywhere. There's a huge valley here and e it'll be sticking up 400 ft. and everybody would see it." Residents have circulated petitions, and even the Town Board is against it. But some residents have a different opinion, as local farmer Mario Gobel has offered to lease some of his land to UW for the tower, to raise a little extra cash.

• More on the situation in Alberta: On the evening of March 20, CKUA AM/FM Edmonton (580/94.9) signed off the air due to the inability to raise enough funds to stay on the air ($2.8 million was needed, but only $1.4 million was raised). This also affects the 15 FM rebroadcasters throughout the province: CKUA-1 Calgary 93.7, CKUA-2 Lethbridge 99.3, CKUA-3 Medicine Hat 97.3, CKUA-4 Grande Prairie 100.9, CKUA-5 Peace River 96.9, CKUA-6 Red Deer 101.3, CKUA-7 Hinton 102.5, CKUA-8 Edson 103.7, CKUA-9 Whitecourt 107.1, CKUA-10 Athabasca 88.3, CKUA-11 Ft.McMurray 96.7, CKUA-12 Spirit River 99.5, CKUA-13 Drumheller 91.3, CKUA-14 Banff 104.3, CKUA-15 Lloydminster 97.5. The decision was made after incurring recent losses of over $7,000 per day from continued operation. It was estimated that only about 4,000 of the estimated 80,000 regular listeners contribute money to the network. This is the 2nd and final year of a provincial government subsidy that was transerring the CKUA network to a provate broadcaster. CKUA was founded on November 21, 1927, and is believed to be the first and longest running government station in Canada. One other element to this is that the CKUA network is the official relay of the province's emergency alert system. CKUA has offered to keep the transmitters operable for this purpose for as long as possible. There are a number of grass roots movement to help CKUA to return to the air. One of the events with the most potential is a scheduled benefit concert to be put on by popular Canadian country/folk singer k.d. lang, who is from Alberta. The following web sites may provide more information on this situation, and provide information for those who want to help: *http://www.ckua.org, http://www.athabascau.ca/html/server/wwwboard/ckua,* and on e-mail write for info at: *radio@freenet.edmonton.ab.cb* Thanks to Saul Chernos and Doug Smith for providing much of this information.

ACCESS NETWORK
CKUA AM·FM

PHOTO-NEWS

Jeff Kruszka, Editor
5024 S. Braxton Ave.
Baton Rouge, LA 70817
JTKruszka@worldnet.att.net

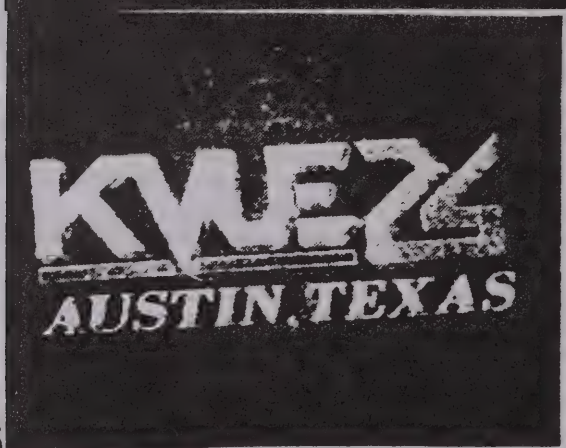
May 1997

Danny Oglethorpe, Shreveport, LA
Equipment: Various TVs and VCRs. Winegard PR-5040 VHF @18 ft. AGL; Channel Master 4257 Quantum corner-yagi UHF w/Winegard GA-4700 @24 ft. AGL.

Thanks to Danny for supplying lots of photos which should keep the column going for a few months. Per hi suggestion, I am grouping his ID's in themes. The first theme is BIG ID's:

KZTV-10 Corpus Christi, TX
385 mi Tr seen 4/14/96
@0100 CT

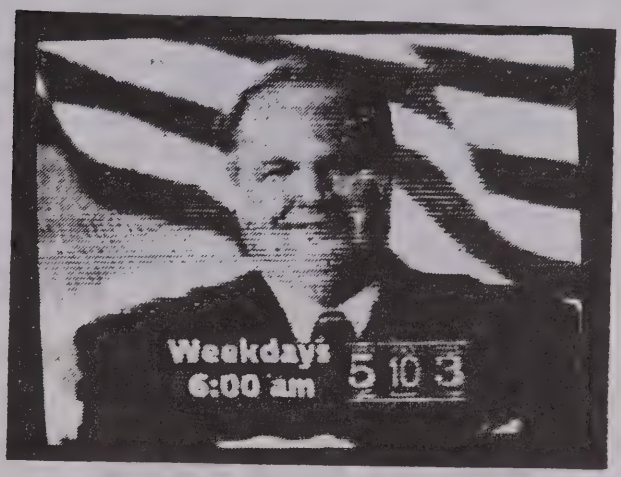
WBMG-42 Birmingham, AL
410 mi Tr seen 5/4/96
@0300 CT
ID w/W04CB Sylacauga



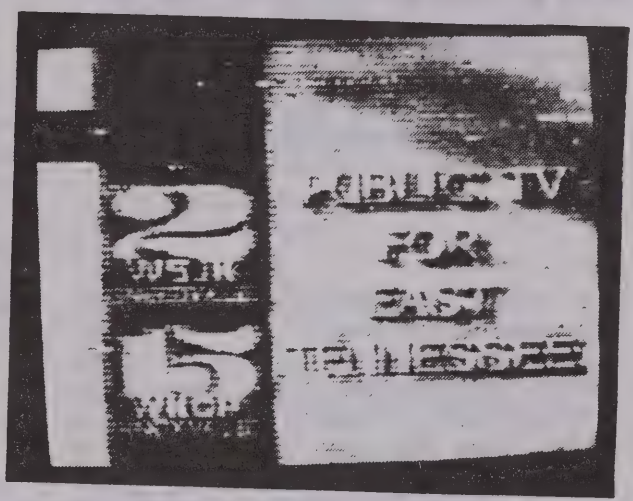
KVUE-24 Austin, TX
277 mi Tr seen 5/5/96
@0300 CT

Now for some multiple channel ID's:

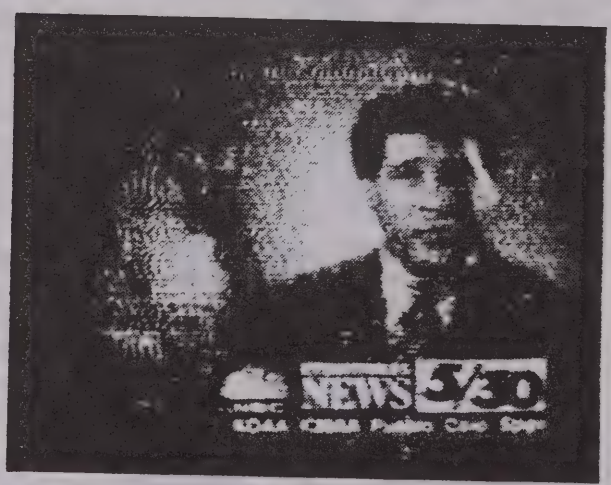
KREX-5 Grand Junction, CO
949 mi Es seen 6/9/96
@1845 CT
ID w/KREG-3 & KREY-10; barely legible!



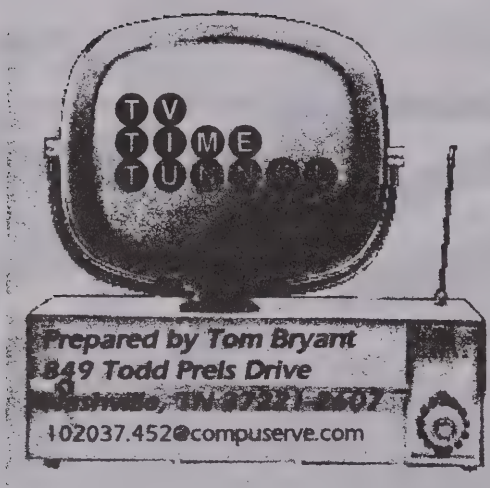
WSJK-2 Sneedville, TN
665 mi Es seen 7/7/96
@1100 CT
ID w/WKOP-15



KOAA-5 Pueblo, CO
734 mi Es seen 7/8/96
@1132 CT
ID w/K30AA Colo. Spgs.



73's,



KXJB-tv LOSES 2060' TOWER.. AGAIN!!!

(written by Tom Bryant)

A winter that was nothing less than horrendous, climaxed by the worst early-April storm in history, left virtually no one in the Northern Great Plains untouched by devastation. As freezing rain turned to ice, then snow (whipped by wind gusts in excess of 60 mph), the beginnings of the worst flooding in history added to the miseries. The Dakotas, and much of Minnesota were virtually cut off from the rest of the world. Many radio and tv stations lost electricity, and eventually left the air as fuel for their emergency generators ran out. Transmitter sites were inaccessible as snow drifts up to 15' deep blocked roads. As a native North Dakotan, with family members still residing in the state, I followed the drama closely via network tv and the internet. This report is based on data gathered primarily from those sources. Special thanks to The Fargo Forum/WDAY, The Grand Forks Herald, and The Bismarck Tribune web sites and KXJB-tv Chief Engineer Arvid Sonstelie for their input. Information on the 1968 collapse of the channel 4 tower is based on a copy of the Fargo Forum (February 15, 1968) filed in my personal collection. These are details you're not likely to find in any other publication.

THE FIRST HINT...

Two-thirds of the way through storm summary in the Bismarck Tribun web site late in the evening of April 5th, could hardly believe what I was reading The news release stated, *"Part of the 2,06(foot KXJB-TV (channel 4) tower at Gale burg in east central North Dakota collap sed under the weight of ice and snow c about 6:15 p.m., knocking its Fargo statio off the air."*

One would think the collapse of th second tallest man-made structure on th continent would command more attentio and detail! My quest for additiona information went into high gear.

A short while later both the Gran Forks Herald and the Fargo Forum/WDA web sites provided updated answers; agai buried in storm news with more of a huma interest slant. The latest word was that th collapse of the tower was not partial, bu complete.

A mere 45 minutes after a trans mitter engineer had left the site, wind gust in excess of 60 mph combined with th dynamics of what was probably well over ton of ice on the guy wires and the towe itself, brought the massive structur crashing to the ground.

THE AFTERMATH...

An internet response to a viewer o the somewhat rudimentary KXJB web sit stated in part: *"Ice and wind took dow our huge tower near Galesburg, ND. Tha tower was as tall as the Sears building an the Space Needle COMBINED!"*

Once a calamity of this nature ha taken place, nothing short of starting fro scratch can be done to reverse the damage According to KXJB-tv Chief Engineer Arvi Sonstelie, in a phone conversation I ha with him on April 17, that's exactly wha the CBS affiliate plans to do...start fro scratch. In the interim, a lot of patchwor 'fixes' are underway.

The station made fast work of getting direct links from its studios in Fargo an Grand Forks to the cable systems in both o those cities. Additional direct-to-cable hookups are being added in othe communities as soon as possible (and/o practical).

Another plan likely to be implemented as soon as possible will be the startup of a channel 4 LPTV in Fargo and another on channel 22 in Grand Forks. Although attaining only a fraction of the enormous reach of the full-power channel 4 operation at 2,000+ feet above ground (and situated on tabletop flat terrain), these LPTVs will at least put an over-the-air signal into the two largest population centers within its normal coverage area. Whether KXJB-tv will be legally required to provide still another LPTV service for the actual city of license, (Valley City) about 60 miles to the west, is uncertain.

There was also mention on the "KX" website of a temporary tower at the main transmitter site capable of covering most of the normal viewing area. This seemed the least likely of the temporary solutions.

DEJA VU...again???

If anything about this story sounds vaguely familiar, there's a good reason. **The first 2,060' KXJB-tv tower, at the exact same site, collapsed on February 14, 1968.**

Shortly after 9AM on a sunny winter morning, a military helicopter cut through at least one of the structure's 27 guy wires...each at least a foot in diameter... causing the aircraft to crash and the instant death of the three military personnel and one civilian passenger it carried.

Authorities at nearby Grand Forks Air Force Base were unable to explain why the 'chopper' was flying in the restricted area surrounding the Fargo/Grand Forks "tower farm". Area residents later stated that there had been low-flying helicopters in the area for several weeks. To the best of my knowledge, an official explanation of the presence of military aircraft in the area was never released.

Engineer Donald Schroeder was in the transmitter building at the time of the incident and said he "heard a sound like a sonic boom, then we were off the air." Luckily he escaped injury as the tower buckled in the middle and fell to the ground in a "V" shape of twisted wreckage.

Mrs. Howard Bring, who lived about three quarters of a mile from the tower, gave this description of the crash. "First, I heard the helicopter flying awfully low, then the whine of the guy wire, and a terrific explosion louder than a sonic boom. I looked out and saw the helicopter falling to the ground in a ball of fire with smoke at the top. Then, the tower started to fall. It came down like it was tired, lazily collapsing and falling to the ground."

At the time of the helicopter incident, the high tower had been in service for less than two years; and the station's original 1,085' structure near Pillsbury, ND (some 20 miles west of Galesburg) was still in place, complete with transmitting antenna. It was decided to physically move the undamaged transmitter back to the Pillsbury site where operations resumed as quickly as possible and continued until the 2,060' tower was rebuilt.

KXJB-tv's Vice President in Charge of Engineering Robert Ridgeway told the Fargo Forum that the station was insured for both the property loss and the air time and revenue lost. He stated that the tower cost between $300,000 and $600,000 to erect in 1966. My personal recollection is that the military was eventually found to be fully responsible for all elements of the tragedy and held liable for all settlements with KXJB-tv and the descendants of the crash victims; however I did not take time to verify that aspect.

OTHER Q & A...

1.) The station was fully insured, and the estimated $2.8 million cost of rebuilding is covered.

2.) No other broadcast stations operated from the channel 4 tower.

3.) The old Pillsbury tower is still in use, but has been sold to a Valley City FM station and stripped of the TV transmitting antenna, thus not offering the quick fix available in 1968.

4.) Reconstruction will commence as soon as possible but will not likely be completed until the summer of 1998.

COMMENT...

Towers. We tend to take them for granted...but by their very nature they defy almost every law of physics and gravity. Thus, although they are erected with every possible safeguard built-in, it is no surprise that we hear of them collapsing occasionally. Perhaps the *real* surprise is that more of them don't go down more often!

(Any comments on the new logo? It marks the beginning of my ninth year as editor of this column. Like it? Hate it? Don't care? Let me know.)

WESTERN TV-DX

May 1997

Victor Franl
12450 Skyline Blvd
Woodside, CA 94062-454
email frank@sneezy.sri.com
(415)851-7031

Dennis P. Smith, 3703 Dixon St., Santa Barbara, CA 93105-2419 (805)687-7803

This report is for March 1997. We had some fair tropo along the usual coastal path to San Diego/ Tijuana (chs. 6-69, 175-200mi) on March 4-9, 11-15, 17-21, and 25-26. Southern CA had a beautiful Spring-like March (high temps. approx. 60-80° F. statewide) with no precipitation. (Winter rains quit early this year), allowing much stable air layering to develop (am I bragging yet?). Tropo ducting has been only fair, though, because the **warm** dry air above our cool coastal layer has not developed to the **HOT** temp. that it will be as summer comes in, to make the layer boundary more pronounced.

Best of DX to all. Dennis.

Jeff Kruszka, 5024 S. Braxton Ave., Baton Rouge, LA 70817

March 1997						CST
03 tr	2034	KEDT	16	TX		425
		XHFOX	17	TA		535
	2101	KVEO	23	TX		500
	2132	XHCVIt	26	TA	SS	
	2155	XHMOYt	22	NL	SS	
	2226	XHAB	7	TA		505
04 tr	0659	KYLE	28	TX	ID	310
	0700	KINZ	68	TX	ID	385
	0705	K66CA	66	TX	TBN	230
21 tr	2339	XHVTV	54	TA	XHGC ID	505
		XHORt	14	TA	SS	
22 tr	0005	XHAB	14	TA	SS	
		transparent calls in lower right				505

Can you believe this is the first tropo of the year? And quite a poor showing for a month which typically never lets me down for DX.

Danny Oglethorpe, P.O. Box 6688, Shreveport, LA 71136-6688

January 1997						UTC
11 Es	2002	WGRZ	2	NY		1091
	2015	CBFT	2	PQ		1414
12 Es	0045	WMAR	2	MD		1072
	0115	WCBD	2	SC	UNCF Telethon	805
		WUND	2	NC	Judy Holliday movie; UNC	1031
	0142	WUNC	4	NC	//WUND	875
	0159	WFMY	2	NC	"Piedmont Coverage Team"	838
	0250	WSJK	2	TN	"PTV for East TN"	665
	0357	WSB	2	GA	Nx 0400	551
24 tr	1408	KMOL	4	TX		347
29 tr	1405	WLJTt	11	TN		
		WBBJ	7	TN	"Local Nx in GMA"	360
	1735	WTVA	9	MS		319
30 tr	1315	WTOK	11	MS		296
	1330	WTTO	21	AL		411
		WBMG	42	AL		410
	1340	WMAH	19	MS		309
	1435	WDBB	17	AL	WB17	365
		WCFT	33	AL	Floating	365
	1440	WXXV	25	MS		309
		WLOX	13	MS		309
	1510	WLJT	11	TN		381
	1520	WOWLt	15	AL	**Leeza** on NBC	
	1540	WKMU	21	KY	Am.Woodshop;KET	426
31 tr	1225	WMAH	19	MS		309
	1230	WXXV	25	MS		309

February 1997						UTC
02 tr	0440	KMOL	4	TX		347
	0520	KRRT	35	TX		356

March 1997						UTC
04 tr	0430	WMAH	19	MS		309
	0640	WPMI	15	AL		355
	0735	XHFOX	17	TA	S/on later; bars	513
		KVEO	23	TX		502
		KNVO	48	TX	Under KTMD	506
	0745	XHAB	7	TA	ID bars	503
	0750	KAVU	25	TX		314
	0755	KGBT	4	TX	Floating on KJAC	491
		XERV	9	TA		513
	0810	KYLE	28	TX		194
	0830	XHBR	11	TA	//XERV	483
	0920	KWEX	41	TX		347
	0930	K31AI	31	TX	TBN	157
		K34CY	34	TX	KAKW-62 ID bars	194
		San Antonio 29,35				
	0940	K43DV	43	TX	TBN	314
	0945	KLRN	9	TX		347
	1010	KVCT	19	TX	o/u KLSB; ID bars	314
	1020	K31CM	31	TX	Univision; //KUVN-23	209
	1205	K17BP	17	TX	TBN	118
		WLOX	13	MS		309
	1220	K47FH	47	TX	TBN; Bryan	194
	1225	San Antonio 4, 5				
	1445	KAKW	62	TX		194

Equipment change: UHF: Sanyo 19" TV; Goldstar GHV-1280M VCR w/RDX UA-75 balun; Antennacraft p-5 chicken-wired dish w/Winegard GA-4700 preamp at 25' AGL (to feedpoint); RG-6; Archerotor B.

11 tr	1345	KAIT	8	AR		295
12 tr	0135	K22EH	22	TX	UPN w/IDs	57
	0320	OKC 4,5,9,13,14,25,34,43				

Fernando Garcia, Apartado 30, Suc B, Cd Guadalupe, NL, 67181 MEXICO 1800' ASL, No re-logs in the same month, only tropo over 500 miles.

Equipment:
Sony KV-27EXR15,Screened CM 7'dish 85',RG11,

Western TV DX *(F. Garcia's report continues)*

JA900 amp. Sony KV-13TR27,CM 1110 30',CM 8 ay UHF array 60' with R. Shack amp.

March 1, 1997					CST
030	KTXA	21	TX	518	SAP same as MAIN
	KDAF	33	TX	518	
	KXTX	39	TX	518	
	KFWD	52	TX	522	TMD
	KDTX	58	TX	518	TBN
	KINZ	68	TX	518	
345	WNOL	38	LA	694	HSS
	WVLA	33	LA	633	NBC Nightside
	KADN	15	LA	586	
400	WPMI	15	AL	838	Logo bt. right
700	KLPB	24	LA	567	LPB
March 3, 1997					
015	WLAE	32	LA	694	Calls bt. right
	WHBR	33	FL	838	rel.
	WEIQ	42	AL	825	SAP dif. Main
	$WFSG	56	FL	929	(904) 487-32
	WGNO	26	LA	694	ABC
	WTWC	40	FL	1030	NBC //KVEO-23
	WTXL	27	FL	1031	ABC //WGNO-26
	K30EM	30	LA	644	ID as HTV
045	WMAH	19	MS	770	MS educ.
100	WPAN	53	FL	869	cci to local
	WCCL	49	LA	688	HSN
	KWBJ-LP	39	LA	618	New calls, exK39BJ
	K55HA	55	LA	596	area advs.
	K69HD	69	LA	586	//K55HA
	WHNO	20	LA	688	rel.
115	$WLPB	27	LA	638	LPB
	K59DG	59	LA	688	New Orleans TBN
	KVHP	29	LA	530	"FOX, LA advs."
130	K56DR	56	LA	633	Baton Rouge TBN
	K21DM	21	LA	592	VJN, see comments
	KLTL	18	LA	548	LPB
	K49DE	49	LA	596	TBN, color
	K51EC	51	LA	532	Lake Charles TBN
	$WGMB	44	LA	633	FOX
200	KLAX	31	LA	618	News
	WFXL	31	GA	1066	Advs.
230	WAPT	16	MS	754	splashing KEDT
	WDBD	40	MS	754	FOX, ID
	WMPV	21	AL	842	TBN
	WXXV	25	MS	764	Mobile advs.
	WFGXt	35	FL		Star Trek, new progr.?
	W68CM	68	FL	943	TBN
245	K46DG	46	LA	587	//chs. 55 and 6
	WIIQ	41	AL	877	APT, //WEIQ-42
	WUPL	54	LA	705	
March 4, 1997					
145	K14IE	14	LA	688	HSS
200	W52BF	52	AL	818	HSS
415	&KDFI	27	TX	518	Test Pattern
530	KHSX	49	TX	518	HSN
	KETK	56	TX	533	
March 5, 1997					
0530	WCFT	33	AL	924	Good Morning AL, news
	KLPA	25	LA	619	LPB
March 17, 1997					
2230	$KJTL	18	TX	598	FOX 18, Cheers
	K24AD	24	TX	579	1-800-456-KERA
March 18, 1997					
0130	KTBO	14	OK	705	(405) 848-14
	$KOKH	25	OK	703	FOX, ID, pay adv.
	KSBI	52	OK	692	Calls on screen
	KAMC	28	TX	553	ABC 28 Hometown
	unid ch 56 n-nw HSN				
March 21, 1997					
2130	WVUE	8	LA	693	area advs.
2145	WAFB	9	LA	638	CBS
2230	K62DW	62	LA	589	//K55HA
2245	W65AS	65	LA	572	INSP
	K46CR	46	LA	645	"VJN, weak"
March 22, 1997					
0145	WMDN	24	MS	834	
	W31BB	31	FL	855	Pensacola HSS
0200	W39BP	39	FL	859	Full ID
0500	W36AC	36	MS	710	TBN
	K52CQ	52	LA	645	//WNTZ-48
	K67GL	67	LA	614	//WNTZ-48
0545	WMAU	17	MS	697	//WMAH-1
	WTTO	21	AL	96	
March 23, 1997					
0930	WBMG	42	AL	969	CBS, ID
March 24, 1997					
0200	%KFXK	51	TX	557	unid bars
2130	W47BP	47	MS	766	//chs 17, 1
2215	KARD	14	LA	659	FOX

This month was an average month of March, openings of 500+ mile tropo were noted also on the 13, 14, 25, 27, 28, 29 and 30 but only relogs of previous days. Many cloudy and rainy days doesn't allow better conditions for tropo openings.

Best month of March for number of days logging at least one station from Alabama, number of days:10. Only one new station:W68CM Panama city, FL, full power area stations were in strong.

I'm sorry because for several months I've reported ch. 21 VJN Lafayette with calls KLFT-LP, they are still holding calls K21DM. I had logged them 109 days since June 3, 92.

73's Fernando

Western TV DX

Frank Aden, Jr., N7SOK, 4096 Marcia Place, Boise ID 83704

Equipment: same equipment as before plus a new Magnavox VCR

December 15, 1996 MST?
0452 KDBC 4 TX Meteor Scatter

January 6, 1997
0333 KHMT 4 MT FOX 4 Meteor Scatter
this is a new and a good one!

January 7, 1997
0228 KXJB 4 ND Meteor Scatter

Not much else to report, have new e-mail and computer, hope the new season will be better!

73, Frank

Pat Dyer, WA5IYX, 5315 Silvertip Drive, San Antonio, TX 78228-2744

It doesn't look like there's anything in my TV-DX log since my last mailing to you except for some in-state and Mexico (unID) tropo.

That might all change if this highly-ballyhooed mag--storm from the past weekend's solar CME impacts us! Based on past experience, Boulder has predicted more of those than ever materialized so NASA running to the general media with this could be a large fiasco. (I'll gladly eat those words though if the likes of Mar 13, 1989 occurs!)

F. Garcia has been keeping me informed via E-mail of his recent wonders. I got him to subscribe to the W6YX vhf-reflector where his exploits of NC and VA UHF tropo might bring him offers of all sorts of donated equipment if he ever gets licensed there!

Some religious thing showed up on Ch 57 here a few days ago and went away - I'm thinking that it might have been our Ch 52 drifted.

Also, for a couple of mornings in the wee hours the Elmendorf Ch 4/5 antenna site must have been doing things as Ch 5 off. They've no aux xmtr these days since CATV is aprox. 50% - they use direct, not off-air, pickup. Ch 4 was on with their aux xmtr and horribly crosshatched video. Its studio-sited aux is aprox. 6 mi vs 25 to the normal one. If Ch 5 had one at its "new" studios that'd be only aprox. 2.8 mi NNE of here!

I perhaps should have tried for some meteor scatter on the vacant Ch 5- though ID "slides" these days would be a rare item. Ch 12, 29, and 35 do run such for aprox. 3 hrs the one morning a week that they don't program.

With that Apr 3 FCC HDTV "shoe landing" it would appear that all our future days of 40+yrs of TV DXing are numbered. With all the Es in low-band VHF one has to wonder who'd want it (considering all the PSB users, etc that have fled 30-50 MHz for hi--VHF/UHF since the 60's.)

There's mixed opinion re the future of the CP for that 100-kw Ch 2 for nearby Fredericksburg now. (The holder of that was killed in an auto accident last year.) Some have suggested that this might be an impetus to get it on and "in line" for one of those HDTV channel giveaways.

Otherwise, wx permitting, much effort has been expended trying to and sometimes observing, taping, an photo-ing Hale-Bopp in the evenings. The wx hasn't been permitting much with Mar 19-23, & 28 good - and then rain until the next/last view being Apr 5 (CST).

I just found out this weekend that my 1980 6" f/8 reflector's 110-vac clock drive still works (I sure didn't need it for all those solar frames with 1/1000 to 1/30-sec exposure times!) Anyway, with Fuji 800 film in a Pentax K-1000 & f/2 50-mm lens "piggybacked" on the scope with the clock drive running I managed one 60-sec exposure.

My Kodak 400 (unguided) exposures of 45-60 sec had the comet head looking more like a hammerhead shark than a sharp parabola! WWW page postings from others using Fuji 800 (and similar focal lens) with just 20-sec unguided frames still showed very noticeable head "blurring".

Sunday evening clouds prevented me from getting to use that with the 2x teleconverter attachment (a 50-mm lens comet image is small on the 35-mm frames).

The local BBS (my TLCT.com E-mail route) announced its closing last week. I've been with it since Jul 1995 (when it had >100 calls/day vs <30 now). There hasn't been any Internet E-mail flow on it for about 3 weeks now anyway! My latest 90-day sub ($15) to it has maybe 30 days left (a pro-rated refund has been promised by the sysop). It's still lingering around since as the area's main Fido net point another one has to be found to replace it.

73, Pat - WA5IYX

Western TV DX

Douglas E. Smith W9WI/4, 1385 Old Clarksville Pike, Pleasant View, TN 37146-8098 USA
(615) 746-5205

{In regard to Danny Oglethorpe's interference problems mentioned last month} It strikes me as unlikely, but not impossible, for this problem to come from a ham. The easy test is the duty cycle of the interference -- if it's there 100% of the time for hours on end, it isn't a ham. (we have to stop transmitting eventually & listen to the other guy!)

(I have observed an interesting type of TVI at my location.. I'm often connected to a DX Packet Cluster on 144.93MHz. When my rig transmits, my reception of WSMV-4 is wiped out by a distorted WTVF-5 picture; or, if I'm watching WTVF, it's wiped out by a distorted WSMV picture! As it turns out... the sum of the channel 4 video frequency and channel 5 audio frequency -- or the sum of the channel 5 video and channel 4 audio -- is 145.00MHz..)

I think your first speculation -- of a home computer -- is probably the best guess for his Dec. 1995 problems.

Dunno, 80dB down really should be enough to prevent any major problems with DX. From a 100KW carrier, that's 1 milliWatt of spurs. And the Shreveport transmitters are at least 10 miles (I think a bit further) out of town. But it's hardly impossible that KTBS's transmitter is somehow in violation of the standards. 40dB down (which I think could easily be reached by a misadjusted or broken transmitter) is 10 watts, about as much as a channel 3 LPTV and definitely capable of causing problems 10-15 miles away, especially when it feeds an antenna 1800 feet high! I think general phase noise from a messed-up phase-locked-loop is a good possible source of trouble here.

I would be quite sure it is NOT a HDTV test. The FCC (and the broadcasters themselves) have been quite good about tooting their own horns about these tests, but I've seen nothing to suggest KTBS is in any way involved. Besides, any DTV signal would be totally unintelligible on a NTSC receiver. If you can recognize the signal as being KTBS's, it isn't DTV.

73 Doug

Jeff Kadet, K1MOD, Box 20, Macomb, IL 61455
(309)833-1809

'96 will go down as the worst Tropo/Es season I can remember. 1997 could not possibly be worse. I picked up a new Delhi VIP 307 SR VHF antenna to replace the CM 1110 which will become my new Es antenna. The Delhi's specs blow the CM 1110 away and physically it looks like a real monster. I'm going to add another 10' to my 37' tower where my ham tri-bander is right now with a Stereo Probe 9 7' above it. The tri-bander is going to put under the dish on the 80' tower replacing the CM 1110 and the Delhi will replace the tribander. Sunspots are coming back ya' know! Last decent DX was on Jan.2 with some decent TX and MI tropo coming in. Saw STVs from MI on chs. 51 with the Family Ch. and ch.68 with the Nashville net. which are new

Also solved a long time mystery on ch.23. When XHPNT-46 was coming in during the great TX opening on 6-17-92 I had an unID SS station on ch.23 but it was much stronger and peaked at a different time than XHPNT. Anyway, turns out it was KUVN. What threw me off is that it is impossible to discern their offset. Anyone with an Icom should try it. I've seen this happen on a few Mexican stations as well, notably XHY-3. Also was able to ID the Worship Network station seen on ch.20 to the SW from their web page which has a complete list. It was K20DQ from Sulphur, OK. That's it from here. 73.

On Nulling Antennas

On further reflection, I thought I should advise you readers of limitations of the canceling antennas that I wrote about in the December, February, and March columns that may not have been obvious to you all.

The first limitation is that the null is only in one or two directions. You will obtain a deep null only if the signal you wish to cancel is arriving from only one direction. If you can see ghost images on your screen, then the signal is probably arriving from more than one direction and you will only with extreme complexity be able to steer two or more independent nulls.

And, what of airplanes? The task of nulling one or more moving sources is a job for a computer-driven adaptive array, not something hobbyists are likely to have at their disposal.

If a number of mountain peaks are visible to both you and the television tower of the station you wish to cancel, you need lots of directivity in the direction of the station(s) you wish to see, and low sidelobe levels. You can do much better than the average TV antenna on the market, but it will involve either an extended horizontal aperture or a long Yagi (with it's narrow bandwidth), or both.

Big antennas are also called for when it is noise, rather than a local low-band VHF station that is limiting your DX reception.

WILLIS MONK - WB5KHD P.O. BOX 1452 COLLEGEDALE, TN 37315

Not much to report this month. Only one letter received this month.

Ever work in broadcasting, television is what I'm talking about. Well forget it, get your head examined and go find a real job. I've just spent the month of March in Odessa, Texas working for KOSA-TV. The station is last in ratings and everything else. So after two weeks there, I made my excape. Thats why there was no March column.

Now to the report.....

ROY BARSTOW
Box 2488
Teaticket, Ma. 02536

EQUIPMENT: 7' dish, 30' a/g, Rox labs amp, Zenith 19" TV, ICOM R-100

FEBUARY 1997

9 Tr	1530	WHCT-18	CT	#1

MARCH 1997

11 Tr	0030	W36BK	VA	
	0045	**W18BS**	VA	TBN
	0100	WUNP-36	NC	S/OFF
		WYDO-14	NC	
	0110	WNCN-17	NC	
		W45BG	VA	
	0130	WRAZ-50	NC	
	0145	W21AQ	VA	
		W24BI	VA	
	0200	WRAY-30	NC	#2
		W41AC	VA	
		WRMY-47	NC	
		W19BM	VA	BOX

MARCH, cont.

11 Tr	0215	W62CN	VA	
		W40AH	VA	
		ALSO 15,27, 33, 43, 49		

FROM EASTERN VIRGINIA.

27 Tr SAME AS 11 MARCH BUT WITH THE FOLLOWING.....

	2100	WUNM-19	NC	
		WUNJ-39	NC	
		WRVS?-18	NC	#3
30 Tr	2000	CICO-18	ON	
		CFJP-35	PQ	
		W67BA	CAPE COD	#4

NOTES:

#1 WHCT-18 ON WITH WORSHIP, BANKERS HOURS, 9-5 BEFORE S/OFF. Mentioned bankruptcy and someone else takin overand to call their lawyer for info. (What is it thats black and brown and looks good on a lawyer? A Doberman pincer!!)

#2- After WRAY-30 s/off came back on with local NOAA weather.

#3- WRVS/-18 This station with a minus offset mentioned, Elizabeth City State University, WRVJ 89.9, ROTC, playing rap noise.

#4- W67BA- Dennis, Cape Cod past few days running a note,"Call direcTV to order"were running Bloomberg.

ROY'S COMMENTS:

"When is it time to dx: is it when those semi-locals start to stabilize? or is it when thos LP's start to appear? or is it when those 300 milers start coming in off the side of your antenna? The answer to all the above is YES!!

"The DX season is up on us, please, -**AND I REPEAT**- please send in those DX reports. The club needs your support. This person has been in this club since it started, and I would pay twice the dues, I not only take off my hat t those who put this publication together each month, but also bow down to them."

Thanks Roy for the comments.

73's till next month

SOUTHERN FM DX

lay 1997

John Zondlo
4009 Driftwood Circle
Yukon, OK 73099
E-mail: Jpzondlo@aol.com
Deadline: 10th

or DXers in AL, AR, AZ, CA, CO, DE, DC, FL, GA, HI, KS, KY, LA, MD, MO, MS, NC, NV, OK, SC, N, TX, UT & WV

reetings from the heartland!

hope that by now you've all had a few good openings. This month we'll catch up on some of the ports Danny had on hand. At the end of the reports, I'll lay out a few guidelines for reporting to this olumn.

at Dyer - WA5IYX - 5315 Silvertip Dr. - San ntonio, TX 78228-2744 CDT
ealistic TM-1001 tuner (2 IF mod w/150 kHz ter) into Allied 426 52-ohm step-attenuator box sed to reduce local intermod/overload when eeded. 6 element Archer antenna at 20' with tor.

17 Es
20 WFCJ 93.7 OH Miamisburg, area wx 1071
20 WQIO 93.7 OH Mt. Vernon, "93-Q" 1182
22 WZLR 95.3 OH Xenia, "Cool 95," area wx 1088
24 WWIZ 103.9 PA Mercer, ID 1303
26 WQXK 105.1 OH Salem, "K-105," area ad, 1270
30 WVNO 106.1 OH Mansfield, ID 1188
35 WMJI 105.7 OH Cleveland, ID 1253
40 WQMX 94.9 OH Medina, area ads, "QMX" 1243
42 WQAL 104.1 OH Cleveland, "Q-104," WKYC-3 promo 1251
45 WCLR 95.7 OH Piqua, "Cool 95" 1095
49 WHMI 93.5 MI Howell, area psa 1220
51 WZJM 92.3 OH Cleveland Heights, local ad 1263
52 WJPS 93.5 IN Chandler, ID 874
52 WKDD 96.5 OH Akron, ID 1252
53 WBXX 95.3 MI Battle Creek, local ad 1157
55 WMXD 92.3 MI Detroit, local ad, "Mix 92.3" 1238
57 WKIO 92.5 IL Urbana, ID 938
30 WYCA 92.3 IN Hammond, rel 1042
31 WLIT 93.9 IL Chicago, "The Lite" 1052
38 WAIR 92.5 MI Atlanta, area ad 1323
44 WGRD 97.9 MI Grand Rapids, "GRD" 1166
48 WSTQ 97.7 IL Streator, local ad 975
50 WKQZ 93.3 MI Midland, area ad 1272
51 WDZZ 92.7 MI Flint, ID 1246
52 WVIC 94.9 MI East Lansing, area ad 1196
54 WLHT 95.7 MI Grand Rapids, ID 1176
00 WLAV 96.9 MI Grand Rapids, ID 1182
13 WUPS 98.5 MI Houghton Lake, ID 1273
19 WCNL 95.9 IL Carlinville, area ads 840
51 WKLQ 94.5 MI Holland, "KLQ" 1158

ic Bueneman - N0UIH - 631 Coachway Lane- zelwood, MO 63042-1347 - E-mail: EricB631 uno.com CST (miles/km)

3 Tr
0 KTBJ 89.3 MO Festus, religious pgm, ID, locals locals KCLC 89.1 and KCFV 89.5 off 55/89

15 Tr
0 IL Springfield, 91.9, 101.9$, 103.7 80/129
0 WLUJ 97.7 IL Petersburg, pledge drive promo, mention of Moody O&O WAFS-Atlanta GA 90/145
2 WCVS 96.7 IL Virden, r (70s oldies) "Laser
1958 WDZQ 95.1 IL Decatur, k, $, semi-local strength, "95-Q" 110/177
2000 WLRW 94.5 IL Champaign, r (hot AC), ID, local ad, "Mix 94.5 150/241
2001 IL Taylorville, 92.7, 94.3 70/113
2002 WJLY 93.3 IL Ramsey, Bible teaching pgm w/KNSX 75/121

11/21 Tr
DXing from the Fort Davidson Motel, Pilot Knob, MO
2115 MO Cape Girardeau, 100.7$, 102.9
2117 MO St. Louis, 88.1$, 90.7$, 91.5$ 92.3$, 93.7$, 96.3$, 98.1$, 102.5$, 103.3$, 107.7$ 70/113
2118 KFUO 99.1 MO Clayton, c, "Classic 99" 75/121
2119 WKBQ 104.1 IL Jerseyville, r (chr//AM1380), "Q-104," splash from KDBB 104.3 100/161
2120 KLOZ 92.7 MO Eldon, r (hot AC), "The Mix, Z-93," local KYLS silent 115/185
2122 WDML 106.9 IL Woodlawn, rp (adult rock), local ads, Mt. Vernon wx, in KTXY null 100/161
2128 MO Rolla, 88.5$, 97.5, 105.3$ 70/121
2129 KY Paducah, 93.3$ (in KNSX null), 96.9$ 115/185
2131 MO Jefferson City, 88.9, 106.9$ 105/169
2144 KCLC 89.1 MO St. Charles, j (contemporary), ABC nx, St. Louis wx, PSA, "89-1, The Connection," thru KWFC 80/129
2145 KWFC 89.1 MO Springfield, Bible teaching pgm thru KCLC 150/241
2150 KPLA 101.5 MO Columbia, j, calls 130/209
2151 KBIA 91.3 MO Columbia, c, calls, KSIV 91.5 splash 130/209
2152 WSIU 91.9 IL Carbondale, j, $, alone on freq, 75/121
2153 KTMO 98.9 MO Kennett, k, calls, KFUO 99.1 splash 100/161
2154 KCLR 99.3 MO Boonville, k, "Clear 99," 145/233
2155 KATZ 100.3 IL Alton, os, ID, "Z-100," KDJR 100.1 splash 90/145
2158 KIYS 101.9 AR Jonesboro, r (chr), "101.9 Kiss FM" 120/193
2200 KOQL 102.3 MO Columbia, o, "Oldies 102.3," KEZK 102.5 splash 130/209
2204 WOOZ 99.9 IL Harrisburg, k, "Z-100" 120/193
2239 WEGR 102.7 TN Memphis, p (aor), ads, "The Eagle" 175/282
2242 WUEZ 103.5 IL Christopher, b, "EZ-103.5," local ads, PSA 90/145
2244 KIRK 103.7 MO Lebanon, k, $, local wx thru WBLN, "Regional Radio" 110/177
2245 WBLN 103.7 KY Murray, r (modern AC), thru

Bueneman continued

2251 KRES 104.7 MO Moberly, k, "Kres Country," thru KKLH 155/249
2252 KKLH 104.7 MO Marshfield, o (classic hits), thru KRES, "The New 104.7 KKLH" 125/201
2256 WCBW 104.9 IL Columbia, gr (ccm), "104.9 The Bridge," ad for St. Charles MO, in KPWB null 60/97
2257 KTTR 99.7 MO St. James, calls, local ads //AM 1490 55/89
2300 KBXB 97.9 MO Sikeston, k (hot country), minor KYKY 98.1 splash, "B-98" 75/121

11/22 Tr
Again DXing from Pilot Knob, MO
0003 KSMU 91.1 MO Springfield, BBC nx//KWMU 90.7, thru K216DE 150/241
0004 KTTS 94.7 MO Springfield, k, $, local ads, wx, thru KSHE 150/241
0005 KSHE 94.7 MO Crestwood, p (aor), through KTTS, "K-She 95" 65/105
0006 WRAJ 96.5 IL Anna, r (chr), //WRIK 98.3, "J-96 & K-98" 75/121
0007 KXOK 97.1 MO Florissant, s (urban AC), "Mix 97.1" 80/129
0008 KXUS 97.3 MO Springfield, rp, "US-97" 150/241
0009 KUKU 100.3 MO Willow Springs, o, local ads, "KU-Oldies 100.3," ABC nx, promo 85/137
0027 WVRV 101.1 IL East St. Louis, "101 The River," rp (adult alternative) 70/113
0028 KTXR 101.3 MO Springield, b, $, calls, local ads 150/241
0030 KBMX 101.9 MO Eldon, "101.9 KBMX, the best music mix," local ads, thru KIYS 115/185
0033 WKNP 90.1 TN Jackson, ct, ID, //WKNO 91.1 190/306
0036 WSIE 88.7 IL Edwardsville, j, interview with Ramsey Lewis 90/145
0049 KNSX 93.3 MO Steelville, o, "93.3 FM," over WDZQ 90/145
0051 KAMS 95.1 AR Mammoth Spring, k, wx, ID w/ Thayer MO, "K-Country 95," o/ WDZQ 90/145
0101 WDZQ 95.1 IL Decatur, k, ID, under KAMS, "95-Q" 175/282

11/23 Tr
0350 WQUL 97.7 IL West Frankfort, o, ex-WFRX, "Cool 97.7" 100/161
0420 IL Taylorville, 92.7$, 94.3$ in like locals
0421 IL Springfield, 98.7$, 101.9$, 103.7$ in like locals, 104.5$ o/ KSLQ 80/129
0424 IL Decatur, 93.1, 95.1$, 102.9$ 110/177
0425 WILL 90.9 IL Urbana, c, $, calls, slight KWMU 90.7 splash 155/249
0435 WYMG 100.5 IL Jacksonville, op (classic rock), calls, local ad 75/121
0455 KBIA 91.3 MO Columbia, j, $, splash from KSIV 91.5 105/169
0459 IL Quincy, 88.5$, 99.5$ 110/177

KTBJ 89.3 finally made it up to my home QTH on 11/3, pretty good for 550 watts! The station has pretty good coverage, as I noticed while driving through St. Louis' southern suburbs on August 31. However, while driving through the area on 11/21, I noticed them off, likely for maintenance.

Spent some time in the Pilot Knob/Ironton MO area 11/21-22 for my grandmother's funeral, so I took the ATS-803A to the area and checked out the radio scene. There are only 3 locals on FM: KTJJ 98.5 Farmington (k), KDJR 100.1 DeSoto (k), and KDBB 104.3 Bonne Terre (adult rock). There are also two semi-locals, K216DE 91.1 Park Hills (WAFR txltr) and KPWB 104.9 Piedmont (k). Local KYLS 92.7 was noted silent, no listing of the station was in the Ironton/Potosi phone book, but the tower on Taum Sauk Mountain is still there. So, I couldn't hear anything about plans to move to 92.9. I had decent , conditions that evening, as my logs will show. I was surprised at the strength of the St. Louis stations in that part of the state. The big surprise was hearing WDZQ 95.1! Who would think a central IL station could make it all the way down to Pilot Knob? Since the local station is off, Iron County MO seems like a good DX spot. 73 and good DX from N0UIH.
(Sorry, should have noted Eric's equipment at the top of the report. He uses a Sangean ATS-803A AM/FM/LW/SW rx, Archer VU-110 with Archerotor at 33' [10M] AGL. - jz)

Hank Holbrook - 407 Arundel Rd. - Fair Haven Cliffs - Dunkirk, MD 20754 EDT
Fisher 101R FM tuner (vintage 1959) with old Scott amp. Winegard CS-6065 single bay FM yagi. Channel Master HD-9519 rotor.

5/29/96 Es
1128 CBVG 88.5 PQ Gaspe, CBC Morningside, thru WAMU 919
1159 CFJU 90.1 NB Kedgwick, in FF, many ads w/one for Goodrich 760

5/31 Es
1507 KABF 88.3 AR Little Rock, ID, raggae 915
1510 KTPB 88.7 TX Kilgore, c, promo for East TX music festival 1123
1518 KVTT 91.7 TX Dallas, Point of View pgm 1210
1520 KKEG 92.1 AR Fayetteville, wx, spots 987

6/11 Es
2027 WMCU 89.7 FL Miami, rel pgms and promos, USA nx, ID 923
2146 WVAS 90.7 AL Montgomery, ID, cultural arts info 704

6/17 Tr
0129 WRZE 96.3 MA Nantucket, r, PSAs & ads 381

Es
0923 WJFR 88.7 FL Jacksonville, ID, Family Radio 652
0947 Royal FM 94.9 Bahamas Port Lucaya, wx and ment of Port Lucaya, steel band mx 800
1011 WZTA 94.9 FL Miami Beach, r, spots, "94.9 Zeta" 921

6/22 Tr
0526 W299AD 107.7 MD Salisbury, txltr of WRBS 95.1

Es
1213 WKRY 93.5 FL Key West, spots 1029
1215 WNOG 93.5 FL Naples, spots 925

Holbrook continued

1157 WRWA 88.7 AL Dothan 724
7/1 Tr
1138 WBMX 98.5 MA Boston, "Mix 98.5," atop WKRZ 378
1147 WGBH 89.7 MA Boston, c 378
1206 WRCH 100.5 CT New Britian, ID 281
7/2 Tr
0030 CBAF-3 91.5 NB Campbellton, FF 808
7/12 Tr
0323 WEBE 107.9 CT Westport, ID 235
0328 WKCD 107.7 CT Pawcatuck, PSAs, ID, "CD 107.7 Smooth FM" 305
7/16 Es
135 Radio Klas 89.1 Jamaica, Mandeville, Straight Talk pgm 1440

Doug Smith - W9WI - 1385 Old Clarksville Pike Pleasant View, TN 37146-8098 - 72777.3143@compuserve.com CST
Factory AM/FM radio in 1990 Ford Escort

Condition have been absolutely "FLAT" here at home ately, but did log some car radio DX while on vacation.
/9 Tr
JS-441, Gatlinburg TN)
900 WRVW 107.5 TN Lebanon, Nashville ads 190
900 WJXA 92.9 TN Nashville, "J-92.9" 185
900 WKDF 103.3 TN Nashville, "KDF" 185
900 WLAC 105.9 TN Nashville, local ads 185
900 WSIX 97.9 TN Nashville, "Big 98" 185
Smoky Mountain National Park, TN side)
WSM 95.5 TN Nashville, local ads 185
WJZC 101.1 KY Russellville, soft j & Nashville ads, 180
North Carolina side)
WMAB 89.8 MS State College, "PRM" 360
WKDF 103.3 TN Nashville, local ads 210
WQLT 107.3 AL Florence, local nx 250
WMSV 91.1 MS Starkville, ID 340

I guess this proves the theory of asymetrical DX <grin>. ve been DXing FM from the Nashville area for 6 years nd have only heard three stations (not counting skip) east Cookeville. Note that the Nashville FMs were heard in atlinburg proper, not just in the elevated parts of the ark. Even more surprising was the reception of WKDF - nd the Mississippi stations - on the North Carolina side, e wrong side of the mountains! 73 Doug

---

Well, that wraps up the reports for this month. ow for a few guidelines for reporting to Southern M DX.

Be sure to put your name and address at the p of the report, along with your e-mail address you have one). Also include the time you are using for your report (EDT, CDT, etc.) Show all times in your report in military time (7PM, for example, is 1900). After this, give us a rundown on the type of equipment you use.

Put the date and mode of propagation at the top of each day's listings, and list catches in the order of time heard. If you have catches by more than one mode in a given day, be sure to note the new mode prior to listing stations by that mode.

If all of your catches are new to your log, note that after you say which time you are reporting in. Otherwise, underline all catches that are new to you.

In your report, afer the time of catch is given, be sure to list the calls, frequency, state of the city of license, and the city of license. List a brief description of what you heard, such as format, spots slogans, etc. If you find you have more to say about a station you've heard, put a footnote number at the end and footnote it at the bottom of your report. You may also include the distance of your catch, using either miles or kilometers, but be sure to note at the top of the page if you are using kilometers.

Remember, this column is for reporting DX you've heard. It is not for lengthy descriptions of the equipment you use, comments on club policy or discussions of the merits or lack thereof of a particular type of programming. This column is also not for general bandscans from your area or an area you are visiting. I reserve the right to edit out catches which would not generally be considered DX. I also reserve the right to return to the sender any submissions which do not follow the reporting guidelines. If you wish, I will send you a form to use as a guideline for formatting your submissions to this column.

Following is an example of the format to be used:

7/29 Es
0945 WYCA 92.3 IN Hammond, g, spots 830
0947 WXRT 93.1 IL Chicago, r (#1) 850
Tr
2307 KBHE 89.3 SD Rapid City, c, asking for $ 510

#1- Station #5,000 from this location, barely heard next to KTLS 93.3 Ada OK

Thanks in advance for your support, and I look forward to hearing from all of you Southern FM DXers!
JZ

NORTHERN FM-DX

GREG CONIGLI
90 SLATE CREEK DR. APT #
CHEEKTOWAGA, NEW YORK 1422
e-mail: coniglio@localnet.co

For DXers in: MA,NH,VT,CT,MA,RI,NY,PA,NJ,OH,MI,IN,IL,WI,MN,IA,NE,SD,ND,MT,WY,ID, WA,OR,AK,Canada

MAY 1997 ***DEADLINE: The 5th*** ***LOG CUTOFF: 3 mos. from postmark***

Another quiet month this time around, with no real major openings noted at all. Winter weather pattern have continued into early spring over many areas. Hopefully by the time you read this, trops have picke up, and skip can't be too far off either! I would like to thank Danny Buntin for so many great years doin Southern FM DX! Also, this issue marks 10 years that I have been in WTFDA. Thank you to all of yo who have made it a great decade, and I am looking forward to at least ten more!!

DAVE NIEMAN - HO STA GEH ROAD - ROCK CITY NEW YORK 14749

Equipment: Carver TX-11 tuner; IF filter modified. Channel Master model 4408 (Stereo Probe 9) at 60 feet AGL on a Alliance HD-73 rotor. Winegard FT-7600 variable FM trap for 95.7MHz, Belden RG-11/u coax feed.

New loggings are underlined. { } note call change.

MARCH 1997 DX

1 tropo

1030 WSNJ 107.7 NJ Bridgeton,call, t$ 245
local WNUC Wethersfield off air

1130 WDSN 106.5 PA Reynoldsville, call, t$ 63
moved from 99.5 MHz

23 tropo

1050 {WVGO}104.7 VA Crewe, "oldies 104.7", o$, ex. WSVS 335

Local WHKS Port Allegany, PA off air.

1413 WRBT 94.9 PA Harrisburg, call, $ 141

1423 WKLL 94.9 NY Frankfort, "K-Rock", rp$ 184

1451 WVIC 94.9 MI East Lansing, call, r$ 313

MARCH 1997 DX

23 tropo continued

1500 WQMX 94.9 OH Medina, call, k$ 175

1509 CKGE 94.9 ON Oshawa, "Magic-FM" rm$ 132

29 tropo

1605 WKXA 100.5 OH Findlay, call, rm$ 275

30 tropo

1100 WMRA 90.7 VA Harrisonburg, ID, c$ 239

1103 WANZ 90.7 PA State College, ID, pr$ 89

1115 WNCU 90.7 NC Durham, call 412

1359 WAIJ 90.3 MD Grantsville, "He's Alive Radio"+ ID, gr$, over semi-local WJSL Houghton, NY 202

I seen some TV skip on 3/30 from 10:00 AM to about 11:00 AM. MUF was channel 2; ID WPBT Miami, FL and also heard WFLA Tampa FL on 25.870MHz. I remember seeing something about this station in 'POP COMM'. On troposcatter I heard WNCU Durham, NC; I don't think it was a meteor burst, it was mixing it up with WMRA Harrisonburg. I also heard a station on 90.7 using the calls and IDing as "WKTS" State College, PA. I think the WKTS calls are assigned to 97.7 Marathon, FL. The FCC data-base has WANZ as the calls assigned to the State College, PA station.

Dave

FRED NORDQUIST - 7945 BOXFORD ROAD - CLAY, NEW YORK 13041-8606

e-mail: nordquist@juno.com OR Fred.Nordquist@bbs.scsd.k12.ny.us Equipment: Carver TX-11a wit IF filter mod, Stereo Probe 9 antenna @ 35' AGL, 2nd SP9 sometimes used with phasing setup.

NOVEMBER 9, 1996 GW

1007 WKRH 106.5 NY Minetto K-Rock, // WKRL 100.9 /W249BC 97.7/ WKLL 94.9 WKLL not always simulcast. 22

JANUARY 11, 1997 ES (brief to SD)

1705 KILI 90.1 SD Porcupine Indian mx 1309

FEBRUARY 8, 1997 GW

1200 WNDR 103.9 NY Mexico relig //WVOA 105.1/W243AB 96.5 IDs all stations 11

1225 WAQB 94.1 NY Brighton oldies o/u CBL-FM non-stop mx w/ID o/mx "Brighton/Rochester" 72

Totals now up to 1748, only 3 new loggings since las July. Local Channels continue to become mor clogged with several translators and stations wit duoply ownership/programming. WTKW 99.5 TK99//WTKV 105.5 TK105 & W256AC 99.1 w classic rock. Let's hope for an eventful Es/Tr D season this year. 73-Fred.

RICK SHAFTAN - 217 GREEN RD. - SPARTA, NEW JERSEY 07871

201) 726-8114, Beeper for DX: (201) 254-0525, alphanumeric beeper: (800) 900-1237. EQUIPMENT: ealistic STA-2280 with 7/110 khz filters (see McVey article, Nov. 1990), Channel Master 20 element TV 45' GL, phased with FM 13's verticially stacked and winegard AP-3800 Amp (32.9 dB gain, 3.2 dB noise figure), 0' AGL and the Bolin Phase Box (VHF antenna used for phasing). (IN CAR: Kenwood KRC-430 with two 10 khz filters). All times approximate.

UGUST 1996 DX

7 Es

505 89.3 KRON, Dallas TX
Mentions of Pleasant Grove, Dallas.

500 92.1 KRLS, Knoxville IA, Local mentions.

702 92.3 KEZO, Omaha NE, ID

2 Tr

300 94.9 CIMF, Hull PQ Solid w/FF. Also good 102.5 but no Bear on 106.9.

EPTEMBER 1996 DX

2 Tr

224 97.5 WKMZ, Martinsburg WV Calls

5 Tr

228 100.3 WBIG, Washington DC
ashington's Oldies Station thru local WHTZ, and Y-100 Philly in null.

6 Tr

056 92.7 WHTF, Starview PA The Eagle

045 101.5 WAYZ, Waynesboro PA, Calls, thru semilocal NJ 101.5.

047 95.1 WIKZ, Chambersburg PA Mix 95 w/ ad for PA Cellular.

CTOBER 1996 DX

2 Tr

039 106.3 WCEM, Cambridge MD Calls

7 Tr

004 89.1 WCID, Friendship NY Family Life Radio w/USA Nx.

DECEMBER 23, 1996 Tr

0208 92.5 WJUN, Mexico PA
Clear ID thru WXTU.

JANUARY 1997 DX

3 Tr

1848 105.7 WNYQ, Queensbury NY
Wink 105.7 // WENU.

5 GW

2146 94.9 W235AA, Wilkes Barre PA
Jazz FM // 91.1

2353 105.7 W289AH, Bethlehem PA //WVIA

11 Es

Only Es of the winter, and a quite bogus session

1640 92.5 KJJY, Ankeny IA Heard calls in car and tried to DX while driving the winding roads of Lk. Hopatcong. Also received Tampa FL 92.5 and Ocala 93.7 and Lakeland Jazz 94.1. Gone by the time I got home at 1710.

12 TrS

1800 101.7 WSCP, Pulaski NY Calls.

FEBRUARY 20, 1997 TrS

1937 101.7 WHUG, Jamestown NY
Country, calls.

at's it. Maybe the warm winter with just 30 inches of snow means good Tr/Es season, perhaps. RKS

OB SEYBOLD - 1865 W. MAIN RD. - SILVER CREEK, NEW YORK 14136

short FM report as I decided to do some DX FM exploring in the hills south of me. Had noted in travels that the 1985 Mercury Grand Marquis can I have now has an excellent FM receiver in it, superior to any car radio I have had the chance to use. I went to a high site (2200 ft. above sea level with one hill blocking or cutting down reception to east-northeast (Buffalo). I used to go to this for TV DXing which used to cut down Buffalo TV greately. Also it looks like I am going to have urn to FM DXing more as WNYB-26 Jamestown is causing me a lot of problems I never experienced)Xing before (Sorry to hear about this, Bob. It does seem like WNYB has one of the best UHF signals ive ever seen, unfortunately, from the exact site of numerous WTFDA conventions, the most recent ng 1991! Too bad that others have found out what a good site that is, hi!-grc). 26 causes problems many different channels, and I can't even get 25 Toronto! Local newspaper has people in Arkwright ir the tower complaining about its location there. At this site, I can receive at least one station through ry Buffalo FM except 102.5 and do get some interference on that frequency. Some stations eived here: Washington, D.C.: 107.3, 103.5, 98.7, 99.5 on daily basis, 94.7 Bethesda, WCXL 1.1 (NC), WARX 106.9 Hagerstown, WYFL 92.5 NC, WPTM 102.3 Roanoke Rapids, NC, WPVR 9 Roanoke. Also a number of stations from Scranton, York, Philly, Baltimore area. This site has d path towards North Carolina with VA, MD, DC, and central/southern PA also in that path. I ember years ago that on TV channel 28 from Durham, NC was common in the early AM, 20 DC always there as was Hagerstown and such. Will have future reports when DX shows up.

STATISTICS

Featuring FM/TV Scoreboards, All Time Distance Records, States Stats and Personal Best Statistics of FM/TV DXers. (Column issued bi-monthly or as support dictates.

FRED NORDQUIST
7945 BOXFORD RD
CLAY, NY 13041
email. nordquis@juno.com

UPDATED 13-Apr-97

FM SCOREBOARD

DEADLINE. THE 5TH

DXER NAME		DXER LOCATION	TOTAL	88-92	ES	MS	AU	USA	CN	MX	FO	TPU	YB	AS OF
DYER,	PAT	TX SAN ANTONIO	3017	471	2467	78	0	44+	4	22	6	77	70	12/31/ 96
MERRILL,	FRANK	IL MACOMB	2636	450	1181	10	8	48+	8	8	3	68	85	02/20/ 96
PUGH,	KEITH	AL NEW HOPE	2380	382	1324	108	18	47+	7	14	6	75	83	12/28/ 95
CONIGLIO,	GREG	NY WILLIAMSVILLE	2056	340	1066	18	32	41+	8	2	5	57	85	10/12/ 95
BUNTIN,	DANNY	OK STILLWATER	2051	346	1218	4	0	48+	5	9	2	65	74	04/08/ 96
FELA,	JOSEPH	NJ S PLAINFIELD	2000	428	1099	2	10	38+	6	0	3	47	68	02/15/ 97
EBELING,	JOHN	MN BLOOMINGTON	1947	334	1085	57	89	48+	7	5	0	61	52	01/01/ 97
BUGAJ,	MIKE	CT ENFIELD	1903	259	1063	25	23	37+	6	1	3	48	74	01/01/ 97
ELVING,	BRUCE	MN ESKO-DULUTH	1833	340	1400	9	8	47+	4	2	0	54	48	02/02/ 96
NORDQUIST,	FRED	NY CLAY	1748	374	877	48	59	42+	5	0	3	51	69	02/22/ 97
EBELING,	JOHN	MN PROSIT	1636	325	1012	4	6	48+	9	2	0	60	75	01/01/ 97
HAWK,	MIKE	NE OMAHA	1588	312	866	30	0	47+	6	4	0	58	91	07/30/ 95
ZONDLO,	JOHN	OK YUKON	1538	293	886	2	0	42+	5	10	0	58	79	01/01/ 97
SEYBOLD,	BOB	NY DUNKIRK	1461	316	649	0	2	45	8	3	3	59	58	01/01/ 96
JEFFERSON,	JOHN	CA DIABLO REGION	1377	310	786	182	1	39	4	7	0	41	74	01/01/ 97
SMOLAREK,	BOB	NJ OLDWICK	1342	206	652	2	4	36+	4	0	3	44	78	02/18/ 97
SHAFTAN,	RICHARD	NJ SPARTA	1239	198	541	21	0	37+	5	0	3	46	78	09/06/ 95
SITTEL,	MATT	FL TALLAHASSEE	1156	162	554	2	0	38+	2	6	4	51	92	01/18/ 95
MORGAN,	GIL	MO LEBANON	1109	199	255	26	0	40+	5	5	0	51	94	10/06/ 95
OETTING	DANIEL	PA EXTON/PHOENIXVILLE	972	248	348	10	2	36+	7	0	1	45	77	03/05/ 97
HOLBROOK,	HANK	MD DUNKIRK	920	252	249	19	0	35+	7	0	4	47	59	10/10/ 95
NIEMAN,	DAVID	NY ROCK CITY	848	199	136	9	1	35+	5	0	0	41	91	05/28/ 96
SIEGEL,	GARY	OH TOLEDO	792	167	180	0	0	33+	5	2	1	42	76	05/05/ 96
STEINBERGER,	RICHARD	MA HUDSON	780	168	342	12	6	35+	5	0	0	41	58	12/15/ 96
TUDENHAM,	JOHN	MO JOPLIN	759	134	192	1	0	43+	3	2	0	49	91	07/10/ 96
SMITH,	DOUG	TN PLEASANT VIEW	671	121	201	1	0	35	3	8	2	48	94	02/24/ 96
JEZIORSKI,	MIKE	FL CRESCENT BEACH	613	116	285	0	0	36+	3	1	4	45	93	02/20/ 97
SIMON,	KEN	FL LAKE WORTH	545	148	437	0	0	34+	2	4	8	49	66	07/05/ 95
DURKIN,	PAT	WI WEST ALLIS	428	89	81	0	0	32+	3	0	0	36	78	08/29/ 95
GEORGE,	PETER	MA STOUGHTON	394	94	149	20	2	36+	5	0	0	42	67	07/05/ 95
MANCUSO,	GUS	MD CHEVERLY	364	65	62	0	0	26+	0	0	0	27	72	10/01/ 95
MCVEY	TIM	PA HANOVER	333	55	38	0	0	20+	3	0	0	24	94	09/09/ 95
MOUNT,	PAUL	NJ MONMOUTH	307	48	21	0	0	20+	0	0	0	21	90	08/24/ 92
BUENEMAN,	ERIC	MO HAZELWOOD	302	50	80	0	0	33	1	2	0	36	92	01/28/ 97
SITTEL,	MATT	NC ASHVILLE	302	37	68	0	0	22	2	2	2	28	94	01/22/ 96
THOMAS,	JIM	CO FORT COLLINS	261	35	129	8	0	24	3	1	0	28	89	02/10/ 96
SCHWEITZER,	BOB	VA SALEM	76	9	0	0	0	5+	0	0	0	6	91	01/14/ 95
TURNER,	RICK	MA N DARTMOUTH	67	16	0	0	0	6	0	0	0	6	96	11/27/ 96

*VERIFIED

FM STATES STATS-DXER INITIALS/LOCATION/GRID COORDINATES

INIT	DXER NAME		DXER LOCATION		LAT NO		LONG WEST	
					DEG	MIN	DEG	MIN
DAL-	DOUGLAS M	ALLEN	CO	WOODLAND PAR	39	0	105	3
RBR-	RUSS	BROWN	MI	ST JOSEPH	42	6	86	29
DBR-	DAVID	BRUMFIELD	IN	MUNCIE	40	11	85	23
MBU-	MIKE	BUGAJ	CT	ENFIELD	41	58	72	36
DBU-	DANNY	BUNTIN	OK	STILLWATER	36	7	97	4
GCO-	GREG	CONIGLIO	NY	CHEEKTOWAGA	42	59	78	41
PDY-	PAT	DYER	TX	SAN ANTONIO	29	28	98	36
JEB-	JOHN	EBELING	MN	BLOOMINGTON	44	50	93	19
JEB2	JOHN	EBELING	MN	PROSIT	47	0	92	37
BEL2	BRUCE	ELVING	MN	DULUTH	46	47	92	6
JFE-	JOSEPH	FELA	NJ	S PLAINFIELD	40	35	74	25
MHA-	MICHAEL	HAWK	NE	OMAHA	41	31	96	3
WHE2	WILLIAM R	HEPBURN	NT	CORAL HARBOR	64	8	83	10
JJE2	JOHN M	JEFFERSON	CA	PLEASANTON	37	40	121	53
JJE3	JOHN M	JEFFERSON	AK	ANCHORAGE	61	13	149	53
MJE-	MIKE	JEZIORSKI	FL	ST.AUGUSTINE	29	44	81	20
GMA-	GUS	MANCUSO	MD	CHEVERLY	38	55	76	55
GMA1	GUS	MANCUSO	WV	BIRCH RIVER	38	30	80	47
FMC-	FRED	MCCORMACK	ND	DES LACS	48	17	101	25
FMC2	FRED	MCCORMACK	ND	FARGO	46	52	96	48
TMC-	TIMOTHY K	MCVEY	TN	BOLIVAR	35	16	88	59

13-Apr-97

INIT	DXER NAME		DXER LOCATION		LAT NO		LONG
					DEG	MIN	DEG
FME-	FRANK	MERRILL	MI	MILAN	42	5	83
FME1	FRANK	MERRILL	IL	MACOMB	40	27	90
GMO-	GIL	MORGAN	MO	STOCKTON	37	39	93
DNI-	DAVID J	NIEMAN	NY	AKRON	42	58	78
DNI1	DAVID J	NIEMAN	NY	ROCK CITY	42	1	78
WNO-	WILLIAM N	NOLLMAN	CT	BOZRAH	41	20	72
FNO-	FRED	NORDQUIST	NY	CLAY	43	8	76
DOD-	DAVID	ODELL	AR	LITTLE ROCK	43	16	96
DOE-	DAN	OETTING	PA	BROOMALL	39	59	75
JPI-	JIM	PIZZI	NM	LOVINGTON	32	57	103
KPU-	KEITH D	PUGH	AL	NEW HOPE	34	32	86
SRE1	SHEL	REMINGTON	HI	KEAAU(FERN FOR	19	27	155
KSI-	KEN	SIMON	FL	LAKE WORTH	26	37	80
MSI1	MATTHEW C	SITTEL	NC	RALEIGH	35	47	78
MSI2	MATTHEW C	SITTEL	FL	TALLAHASSEE	30	29	84
MSI3	MATTHEW C	SITTEL	NC	ASHVILLE	35	34	82
DSM1	DOUGLAS E	SMITH	TN	PLEASANT VIEW	36	24	87
RSM-	BOB	SMOLAREK	NJ	HIGH BRIDGE	40	40	74
RST1	RICHARD	STEINBERGER	MA	HUDSON	42	24	71
RST-	RALPH	STROBEL	IN	MUNCIE	40	11	85
SWI1	STEVEN C	WISEBLOOD	TX	BROWNSVILLE	25	54	97
JZO-	JOHN	ZONDLO	OK	YUKON	35	30	97

AS OF: 4/13/97

FM STATES STATS

FM STATISTICS

PU	#	DXER	#	DXER	PU	#	DXER	#	DXER
USA					USA(CONT)				
AL	163	KPU-	69	MSI2	MT	30	JJE2	28	JEB2
AK	11	JJE3	0	None	NE	80	MHA-	56	FME1
AZ	55	PDY-	39	JJE2	NV	29	PDY-	24	DBU-
AR	86	DOD-	66	JFE-	NH	37	RST1	23	MBU-
CA	428	JJE2	141	PDY-	NJ	92	JFE-	83	RSM-
CO	122	DAL-	85	KPU-	NM	69	KPU-	54	RST-
CT	69	MBU-	43	JFE-	NY	248	FNO-	198	DNI-
DE	20	DOE-	17	JFE-	NC	124	MSI1	94	PDY-
FL	190	FME1	177	PDY-	ND	34	FMC-	34	FMC2
GA	131	KPU-	124	PDY-	OH	248	RST-	177	FME-
HI	29	SRE1	0	None	OK	146	JZO-	141	DBU-
ID	30	PDY-	28	DBU-	OR	31	JPI-	29	FMC2
IL	261	FME1	231	RST-	PA	180	DNI1	149	JFE-
IN	227	RST-	132	DBR-	RI	16	WNO-	14	RST1
IA	128	JEB-	120	RBR-	SC	76	PDY-	69	MSI3
KS	107	DBU-	101	JZO-	SD	48	KPU-	41	PDY-
KY	135	RST-	84	PDY-	TN	165	KPU-	101	DSM1
LA	80	JFE-	73	GCO-	TX	358	PDY-	252	RST-
ME	47	RST1	41	KPU-	UT	35	PDY-	25	FME1
MD	63	JFE-	54	DOE-	VT	23	MBU-	20	KPU-
MA	106	RST1	96	MBU-	VA	74	JFE-	67	MSI1
MI	178	RST-	139	FME-	WA	46	FMC2	35	DAL-
MN	234	JEB2	228	JEB-	WV	68	GMA1	43	RST-
MS	96	KPU-	69	JFE-	WI	143	BEL2	141	JEB-
MO	175	GMO-	169	FME1	WY	31	RST-	30	PDY-
					DC	14	GMA-	13	DNI-

PU	#	DXER	#	DXER
CANADA				
AB	30	JJE2	30	JEB2
BC	20	JJE2	11	JEB2
MB	15	FMC-	13	FMC2
NB	11	FME1	7	RST1
NF	13	JFE-	13	DNI1
NT	1	WHE2	1	JEB2
NS	15	FME1	11	KPU-
ON	133	DNI-	131	GCO-
PEI	3	RST-	2	JFE-
PQ	31	DNI-	29	GCO-
SK	12	FME1	10	JJE2
YT	0	None	0	None

FOREIGN				
CUBA	6	RST-	6	KPU-
BELIZ	3	PDY-	3	KPU-
BERMU	3	DNI-	3	GCO-
EL SA	8	PDY-	4	SWI1
GUATE	23	PDY-	5	SWI1
HONDU	6	PDY-	5	SWI1
JAMAI	29	KPU-	11	MSI2
PUERT	5	MJE-	4	KSI-
D.REP	2	FME1	1	KSI-
BAHAMAS	2	KPU-	1	DSM1
C.RICA	6	SWI1	1	PDY-
CAYIS	3	KPU-	0	None

PU	#	DXER	#	DXER
MEXICO				
AGU(AG)	2	MSI2	1	JPI-
BCN(BN)	17	PDY-	10	FMC-
BCS(BS)	1	PDY-	1	JZO-
CAM(CE)	2	KPU-	1	SWI1
CHP(CH)	4	PDY-	0	None
CHI(CI)	13	FME1	9	MHA-
COA(CL)	12	KPU-	12	FME1
COL(CY)	0	None	0	None
DF (DF)	21	TMC-	21	JPI-
DUR(DU)	1	PDY-	0	None
GTO(GN)	9	JPI-	2	TMC-
GRO(GR)	7	PDY-	1	JPI-
HGO(HD)	1	JPI-	0	None
JAL(JA)	12	TMC-	10	PDY-
MEX(MC)	3	JPI-	3	PDY-
MIC(MH)	3	JPI-	1	PDY-
MOR(MR)	5	PDY-	3	JPI-
NAY(NA)	1	PDY-	0	None
NL (NL)	20	SWI1	19	KPU-
OAX(OX)	1	JPI-	1	PDY-
PUE(PU)	6	PDY-	4	TMC-
QUE(QT)	1	PDY-	0	None
QUI(QU)	0	None	0	None
SLP(SL)	2	TMC-	2	KPU-
SIN(SN)	3	JJE2	1	DBU-
SON(SO)	8	JJE2	7	PDY-
TAB(TB)	4	KPU-	2	PDY-
TAM(TM)	25	SWI1	21	KPU-
TLA(TZ)	1	KPU-	0	None
VCZ(VZ)	11	SWI1	9	JPI-
YUC(YU)	7	FME1	4	SWI1
ZAC(ZA)	1	KPU-	1	DSM1

ABOVE STATS REPRESENT MOST NO. OF STATIONS FOR EACH
POLITICAL UNIT (PU) FROM A SPECIFIED DXER LOCATION.
FIRST AND SECOND PLACE DXERS ARE LISTED ONLY.
OTHERS THAT ARE TIED FOR SECOND ARE NOT LISTED...FJN

AS OF: 4/13/97

TV STATES STATS

TV STATISTICS

PU	#	DXER	#	DXER	PU	#	DXER	#	DXER
USA					USA(CONT)				
AL	51	JKA-	49	FGA-	MT	9	FME1	8	JKA-
AK	0	None	0	None	NE	57	JKA-	43	FME1
AZ	6	JKA-	5	PDY-	NV	3	FGA-	3	PDY-
AR	47	JKA-	26	FME1	NH	11	RBA-	10	RST1
CA	7	PDY-	4	DOG-	NJ	19	RBA-	16	RSM-
CO	25	JKA-	17	FME1	NM	5	JKA-	5	PDY-
CT	22	RBA-	12	RSM-	NY	96	DNI-	87	FNO-
DE	6	RBA-	5	RSM-	NC	34	RBA-	25	FGA-
FL	117	FGA-	80	MSI2	ND	9	JKA-	7	FME1
GA	46	FGA-	39	JKA-	OH	88	JKA-	77	FME1
HI	10	SRE1	0	None	OK	59	JKA-	46	FME1
ID	6	FME1	4	PDY-	OR	1	PDY-	0	None
IL	87	JKA-	81	FME1	PA	70	DNI1	46	RBA-
IN	69	JKA-	64	FME1	RI	7	RBA-	5	RMI2
IA	74	JKA-	70	FME1	SC	23	FGA-	19	RBA-
KS	43	JKA-	38	FME1	SD	25	JKA-	24	FME1
KY	41	FME1	37	JKA-	TN	51	JKA-	46	FME1
LA	62	FGA-	61	JKR1	TX	187	FGA-	109	PDY-
ME	29	RMI2	22	RBA-	UT	4	JKA-	4	DOG-
MD	16	RBA-	13	DNI1	VT	12	RBA-	7	RMI2
MA	33	RBA-	27	RST1	VA	51	RBA-	19	DNI1
MI	79	JKA-	71	FME1	WA	4	JKA-	3	FME1
MN	126	JKA-	73	FME1	WV	16	JKA-	18	FME1
MS	32	JKR1	31	FGA-	WI	61	JKA-	60	FME1
MO	71	JKA-	56	FME1	WY	4	JKA-	4	FME1
					DC	13	GMA3	11	RBA-

PU	#	DXER	#	DXER
CANADA				
AT	9	JKA-	8	FME1
BC	1	FWH-	0	None
MB	10	FME1	7	JKA-
NB	20	RMI2	9	RBA-
NF	8	RBA-	5	WHE-
NS	34	RMI2	30	RBA-
ON	91	WHE-	84	DNI-
PEI	5	RMI2	2	RBA-
PQ	44	RMI2	19	DNI-
SK	17	FME1	16	JKA-
NT	2	WHE6	1	WHE7
YT	0	None	0	None

FOREIGN(AMERICAS)				
CUBA	9	FGA-	7	FME1
D.REP	1	JKA-	1	FME1
EL SA	2	FGA-	2	PDY-
GUATE	1	FGA-	1	PDY-
HONDU	2	FGA-	0	None
NICAR	1	PDY-	1	FGA-
PUERT	1	JKA-	0	None
VENEZ	1	GCO-	0	None

FOREIGN(OTHER)				
AUSTRALIA	1	JKA-	1	FME1
FRANCE	1	WHE5	0	None
NORWAY	1	JKA-	0	None
SWEDEN	1	JKA-	0	None
UK	2	WHE5	0	None
USSR	1	JKA-	0	None

PU	#	DXER	#	DXER
MEXICO				
AGU(AG)	1	DOG-	0	None
BCN(BN)	2	FGA-	2	PDY-
BCS(BS)	2	PDY-	1	DOG-
CAM(CE)	0	None	0	None
CHP(CH)	5	JKA-	2	FGA-
CHI(CI)	5	JKA-	4	FME1
COA(CL)	10	FGA-	4	JKA-
COL(CY)	1	JKR-	0	None
DF (DF)	2	PDY-	1	JKR1
DUR(DU)	0	None	0	None
GTO(GN)	1	JKA-	1	JKR1
GRO(GR)	2	PDY-	3	FGA-
HGO(HD)	0	None	0	None
JAL(JA)	5	DOG-	1	PDY-
MEX(MC)	0	None	0	None
MIC(MH)	0	None	0	None
MOR(MR)	0	None	0	None
NAY(NA)	0	None	0	None
NL (NL)	13	FGA-	6	PDY-
OAX(OX)	2	PDY-	1	DOG-
PUE(PU)	1	PDY-	1	JKR-
QUE(QT)	1	PDY-	1	FME1
QUI(QU)	1	JKA-	0	None
SLP(SL)	0	None	0	None
SIN(SN)	2	DOG-	1	PDY-
SON(SO)	3	PDY-	1	DOG-
TAB(TB)	2	PDY-	1	DOG-
TAM(TM)	24	FGA-	8	PDY-
TLA(TZ)	0	None	0	None
VCZ(VZ)	4	PDY-	2	JKA-
YUC(YU)	5	FGA-	2	PDY-
ZAC(ZA)	2	JKA-	1	JKR-

BOVE STATS REPRESENT MOST NO. OF STATIONS FOR EACH
OLITICAL UNIT (PU) FROM A SPECIFIED DXER LOCATION.
NLY 1ST AND 2ND PLACE DXERS LISTED.
THERS THAT ARE TIED FOR SECOND ARE NOT LISTED...FJN

TV STATISTICS

FRED NORDQUIST
7945 BOXFORD RD
CLAY, NY 13041
E-mail: nordquis@juno.com

AS OF: 4/13/97

TV SCOREBOARD

DEADLINE: THE 5TH

DXER NAME	DXER LOCATION	TOTAL	UHF	LPTV	ES	MS	AU	USA	CN	MX	FO	TPU	YB	AS OF
KADET, JEFF	IL MACOMB	1597	1089	551	253	3	0	45+	7	11	7	71	83	10/21/ 9
MERRILL, FRANK	IL MACOMB	1390	887	393	247	21	0	45+	7	12	3	72	85	02/20/ 9
SEYBOLD, BOB	NY DUNKIRK	1365	801	234	217	30	6	49+	7	1	5	63	50	11/04/ 9
GARCIA, FERNANDO	NL MONTERREY	756	512	201	111	0	0	31	0	8	5	44	91	12/31/ 9
SIEGEL, GARY	OH TOLEDO	645	308	49	149	0	0	39+	6	2	2	50	70	05/05/ 9
BARSTOW, ROY	MA TEATICKET	573	351	110	118	5	1	37+	7	0	1	46	71	12/13/ 9
NIEMAN, DAVID	NY ROCK CITY	508	366	77	53	0	0	35+	5	0	0	41	91	10/07/ 9
DYER, PAT	TX SAN ANTONIO	488	155	13	199	64	0	42+	5	18	5	71	59	12/31/ 9
MILLER, RUSS	ME AMITY	479	242	108	102	75	0	33+	7	0	3	44	94	11/08/ 9
HEPBURN, WILLIAM	ON BRAMPTON	463	300	46	97	1	0	36+	7	0	1	45	85	06/01/ 9
CONIGLIO, GREG	NY WILLIAMSVILLE	446	269	43	93	0	0	35	6	0	2	43	86	10/14/ 9
OGLETHORPE, DANNY	LA SHREVEPORT	436	168	29	155	0	0	38+	4	16	2	61	94	12/08/ 9
KRUSZKA, JEFF	LA BATON ROUGE	402	252	56	73	0	0	31+	1	6	2	41	93	09/15/ 9
NORDQUIST, FRED	NY CLAY	391	247	43	75	3	0	36+	6	0	1	44	69	12/08/ 9
SHAFTAN, RICK	NJ SPARTA	374	189	26	102	0	0	36+	5	0	1	43	81	09/06/ 9
SMITH, DOUG	TN PLEASANT VIEW	371	244	30	46	1	0	31	2	4	1	38	94	02/24/ 9
WHEELER, FRANK	PA ERIE	331	92	0	239	5	2	33+	9	0	0	43	53	07/30/ 9
BUENEMAN, ERIC	MO HAZELWOOD	215	150	8	26	0	0	24	3	1	0	28	92	01/28/ 9
HANLEY, CHRIS	IL GALESBURG	210	108	10	60	0	0	28	6	0	1	35	88	08/09/ 9
JEFFERSON, JOHN	CA ANTIOCH	206	106	-	75	1	0	16	4	4	0	24	74	01/01/ 9
MILTIER, RANDY	CA SAN JOSE	126	38	2	70	2	0	16	?	3	0	?	69	01/25/ 9
MOUNT, PAUL	NJ MONMOUTH	95	67	5	2	0	0	12+	0	0	0	13	90	08/24/ 9
STEINBERGER, RICHARD	MA HUDSON	88	51	5	6	0	0	14	1	0	0	15	60	12/15/ 9
HAWK, MIKE	NE OMAHA	82	48	7	5	0	0	11	2	0	0	13	91	07/29/ 9

COLUMN DEFINITIONS are as follows Total = Total number of TV stations logged from DXer's location (All loggings should be received within a 25 mile radius of this location to count Freq changes count as a station call letter changes DO NOT count Also count a station only once regardless if logged by different propagation modes UHF = All stations logged from CHANNELS 14 TO 83 LPTV=Low Power TV loggings Es=Total number of stations logged by E-skip MS=Total by meteor scatter Au= Total via Aurora USA = Total number of states and the "+"=Washington DC CN=Number of Canadian provinces logged MX=Number of Mexican states logged PO=Number of foreign countries but not Canada/Mexico TPU (Total number of political units)=Sum of USA CN MX and FO YB = The year you began DXing from this location Other groundrules for computing log totals are included in VUD Issue 5/97 Note Submit your latest stats to keep on the Scoreboard Also submit any distance records states stats and personal best statistics Send via E-mail (Preferred) or regular mail 73 - Fred

TV STATES STATS-DXER INITIALS/LOCATION/GRID COORDINATES

INIT	DXER NAME	DXER LOCATION	LAT DEG	LAT MIN	LONG DEG	LONG MIN
RBA-	ROY BARSTOW	MA TEATICKET	41	36	70	36
GCO-	GREG CONIGLIO	NY CHEEKTOWAGA	42	59	78	41
PDY-	PAT DYER	TX SAN ANTONIO	29	28	98	36
FGA-	FERNANDO GARCIA	MEX GUADALOUPE(NL)	25	41	100	15
WHE-	WILLIAM R HEPBURN	ON BRAMPTON	43	40	79	46
WHE5	WILLIAM R HEPBURN	ON NIAGARA FALLS	43	5	79	6
WHE6	WILLIAM R HEPBURN	NT FROBISHER BAY	63	44	68	28
WHE7	WILLIAM R HEPBURN	NT EUREKA	80	0	85	56
JKA-	JEFF KADET	IL MACOMB	40	27	90	40
JKR-	JEFF KRUSZKA	LA HARAHAN	29	56	90	11
JKR1	JEFF KRUSZKA	LA BATON ROUGE	30	30	91	10
GMA3	GUS MANCUSO	MD HYATTSVILLE	38	56	76	56

13-Apr-97

INIT	DXER NAME	DXER LOCATION	LAT DEG	LAT MIN	LONG DEG	LONG MIN
FME1	FRANK MERRILL	IL MACOMB	40	27	90	40
RMI2	RUSSELL MILLER	ME AMITY	45	54	67	53
DNI-	DAVID J NIEMAN	NY AKRON	42	58	78	32
DNI1	DAVID J NIEMAN	NY ROCK CITY	42	1	78	28
FNO-	FRED NORDQUIST	NY CLAY	43	8	76	8
DOG-	DANNY OGLETHORPE	LA SHREVEPORT	32	24	93	46
SRE1	SHEL REMINGTON	HI KEAAU(FERN FORES	19	27	155	10
MSI2	MATTHEW C SITTEL	FL TALLAHASSEE	30	29	84	18
RSM-	BOB SMOLAREK	NJ HIGH BRIDGE	40	40	74	54
RST1	RICHARD STEINBERGER	MA HUDSON	42	24	71	35
FWH-	FRANK WHEELER	PA ERIE	42	8	80	4

WTFDA GUIDELINES FOR COMPUTING TV-FM DISTANCE RECORDS AND SCOREBOARD TOTALS

1] A TV Station received on more than one channel (when it changes channel, but retains its identity) may be counted once for each channel, excluding change in offset on the same channel. Simultaneous reception of the same station on more than one channel is usually a receiver problem only, though you may present evidence to the contrary. An FM station may be counted again when it deliberately changes frequencies, or varies more than 100kHz from its normal frequency. DXers should be certain they are not counting receiver images or mixing products.

2] Stations operating successively on the same channel in a single city what are clearly unrelated (i.e., with different call letters and a hiatus in occupation of the channel, or non-renewal of the first station's license) are counted as separate stations.

3] A move in a station's transmitter location does not allow it to count as a new station unless the CITY OF LICENSE also changes. Thus, a station starting in a small city and later moving both transmitter and identity to a larger city, if received during both phases of operation, will count twice. Stations moving antenna from downtown to suburbs, for example, with no change in the city of license, count only once. The addition of a city to a station's identity (multiple city station identification) does not count as a new station.

4] A change in call letters per se is not sufficient reason to count that station as new, whether or not a change in ownership is involved in a continuously operation station. Power lever or changes in power alone shall have no bearing on these guidelines.

5] Sharetime stations (rare cases of two stations in the same coverage area sharing the same frequency at different times of the day) count as one if they share their transmitter; individually if they have separate transmitter sites.

6] DX received via cable TV may be counted if the station was received off the air on its original frequency at the CATV headend, from which distances must be measured. TOTAL INCLUDING CATV MUST BE SPECIFIED.

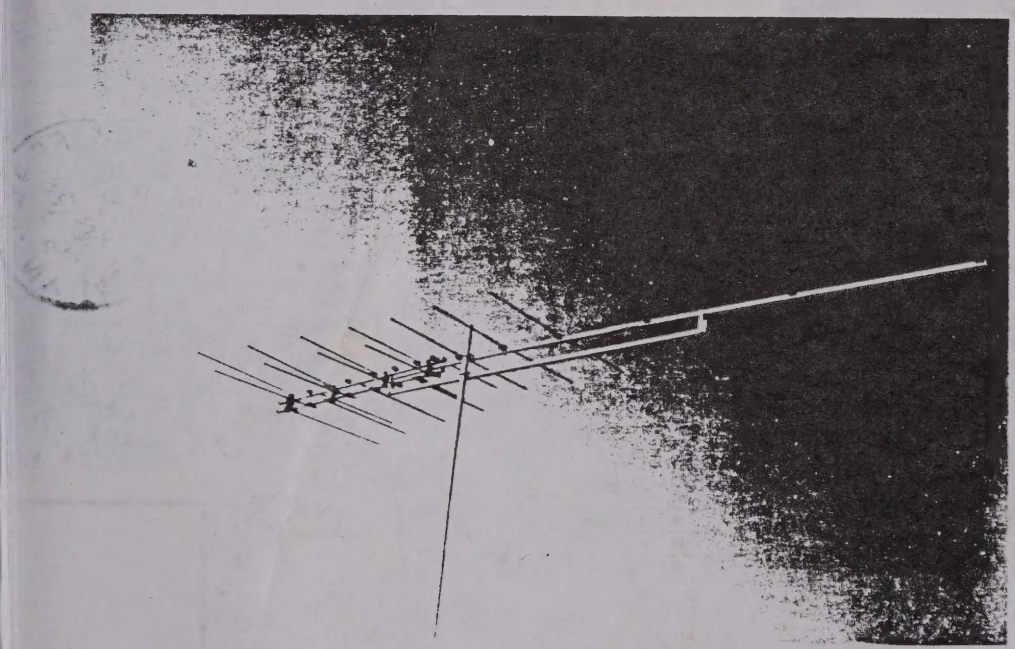
7] The precise location of the transmitting antenna shall be the determining factor in computing the DX path distance and tallying the number of political units received.

8] Verifications are not required; however, contributors must be reasonably certain that all stations claimed were received. Those totals limited to verified only should be labeled as such.

9] DX obtained by recording only, and not witnessed at the actual time of the reception, is eligible -- so long as the contributor himself chose the frequency and prepared the recording apparatus. When more than one DXer is present at a DX reception, even as a visitor to another DXer's shack, only those having an active part in the reception may claim the DX.

10] Translators and experimental stations, as well as unlicensed outlets such as pirates and clandestines, are eligible. Harmonics of TV video signals are eligible if the fall within another TV band, and those of FM stations are eligible if the harmonics fall within the FM band. But utility stations monitored on FM or TV, and CATV radiation, do not count.

Note: The above guidelines are to be used for reporting to VUD columns. Feel free to count your station totals any way you like in your own log, but please follow the above guidelines for WTFDA purposes. WTFDAers come from varied backgrounds and differ widely on how to count station totals; without the above, it would be like comparing "apples an oranges" when reading DX report columns. These are essentially the same guidelines in use since the WTFDA began, and comments on them are always welcome--but remember, unless reporters follow the same standard in counting stations, it's very hard to compare their results.)



WORLDWIDE TV-FM DX ASSOCIATION
P O BOX 17333 - ASHEVILLE, NC 28816 - U.S.A.

MEMBER

OPINIONS EXPRESSED IN THIS PUBLICATION ARE THOSE OF THE INDIVIDUAL CONTRIBUTOR AND DO NOT NECESSARILY REFLECT THE VIEWS OF THE PUBLISHER OR BOARD OF DIRECTORS. WE PESERVE THE RIGHT TO EDIT MATERIAL TO MEET PUBLISHING STANDARDS. UNLESS PREVIOUSLY AGREED UPON IN WRITING, ALL MATERIAL SUBMITTED FOR PUBLICATION IN THE VHF-UHF DIGEST BECOMES THE PROPERTY OF W.T.F.D.A.

REPRODUCTION OF MATERIAL FROM THE VHF-UHF DIGEST WITHOUT PEPMISSION OF W.T.F.D.A. IS PROHIBITED. INDIVIDUALS AND OTHER ORGANIZATIONS ARE GRANTED SUCH PERMISSION PROVIDING PROPER CREDIT IS GIVEN TO THE SOURCE.

ANNUAL DUES: (payable in U.S. funds) $24/year: U.S. addresses
$26/year* to Canada
$38/year* for airmail service to all other countries. (*Payable in U.S. funds)

BUFFALO, NY 142
MAY 5
M
'97

first class mail

6/97
ALFRED A LAUN III K3ZO
P O BOX 97
TEMPLE HILLS MD 20757-0097